



Vizio e series user manual

Page 1 6. Thank you for your support. For maximum benefit of your set, please read these instructions before making any adjustments, and retain them for future reference. We hope you will experience many years of enjoyment from your new VIZIO HDTV. For assistance, please call (877) 698-8462 or visit us at www.vizio.com... Important Safety Instructions Your HDTV is designed and manufactured to operate within defined design limits, and misuse may result in electric shock or fire. To prevent your HDTV from being damaged, the following rules should be observed for the installation, use, and maintenance of your HDTV. Read the following safety instructions before operating your HDTV. Page 3 Liquid sprays or any object drops into your HDTV. Your HDTV is exposed to rain or other moisture. Your HDTV is exposed to rain or other moisture. Your HDTV is exposed to rain or other moisture. User Manual www.VIZIO.com... Television Antenna Connection External Television Antenna Grounding If an outside antenna/satellite dish or cable system is to be connected to the TV, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges. Chapter 6 Specifications ... 54 Glossary – Standard Definitions ... 59 Chapter 7 Warranty ... 60 Chapter 8 Index ... 64 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com ... Opening the Package Your VIZIO HDTV and accessories are carefully packed in a cardboard carton that has been designed to protect it from transportation damage. Now you have opened the carton check that your HDTV is in good condition and that all of the accessories are included. Avoid installing your HDTV in places with high humidity, dust, or smoke so you do not shorten the service life of the electronic components. • Install your HDTV in a level, landscape orientation, with the VIZIO logo at the bottom to prevent poor ventilation and excessive component damage. •... Wall Mounting Your HDTV Your HDTV can be mounted on the wall for viewing. If you choose to mount your HDTV on the wall, follow the instructions below. 1. Write down the serial number located on the back of your HDTV in the space provided on page 1 to have it handy if you need to call for support. Preparing your LCD HDTV for Wall Mounting Your VIZIO HDTV can either be kept on the stand base or mounted on the wall for viewing. If you choose to mount the TV on the wall, please follow the instructions below for removing the stand. Chapter 2 Basic Controls and Connections Front Panel POWER 'VIZIO' LIGHT- The VIZIO name lights white when powered on and it will get dimmer when powered off. REMOTE CONTROL SENSOR and LIGHT SENSOR – This is the window through which of the remote control signals pass to the sensor. VIZIO 60HZ E SERIES User Manual Rear and Side Panel Connections Version 3/16/2010 www.VIZIO.com... Page 12 Best connection in the field to transmit digital Audio and Video content. Connect an audio/video source for digital video such as a DVD multimedia player, a digital set-top box for cable or satellite receiver system. Your TV comes with four HDMI inputs. www.VIZIO.com or by calling 888-... Brightness and Contrast, or turn menu options On and Off. OK — When the OSD menu is up, pressing this key select the highlighted option in the menu. Version 3/16/2010 BACK, BACKWARDS, FAST www.VIZIO.com VIZIO 60HZ E SERIES User Manual... TV and Set-Top Boxes. Please, refer to the tables at the end of this User's manual for the different codes to match the different manufacturers including the codes for VIZIO preferred accessories and equipment systems. The following procedure is required to do the programming: 1. Using a Cable or Satellite Remote Your VIZIO remote uses codes 11758 and 10178 to work your LCD HDTV. To use a cable or satellite remote to work the LCD HDTV, refer to your cable or satellite remote user guide for more information on how to program the remote. Connecting Equipment Chapter 3 Your HDTV has six different ways to connect your video equipment from a basic connection to the most advanced for digital signals. Connection Quality Connector (type) Best (digital) ------ Good (analog) Best... Cable and Satellite Boxes that have a HDMI digital interface should be connected to the HDMI input of the LCD HDTV for optimal results. Note: To maintain the display quality, use a VIZIO certified HDMI cable. Lengths are available up to 10 Meters. See www.vizio.com or call 1-888-849-4623) for details. Page 18 For Cable or Satellite Boxes with DVI: Turn off the power to the LCD HDTV and HDTV Set-Top Box. Using a HDMI-DVI cable, connect the DVI end to the HDMI end to the HDMI2 Input at the side of the LCD HDTV. Using an audio cable (1/8'... COMP button on the Remote Control. Note: • Refer to your HDTV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator. Version 3/16/2010 VIZIO.com... Connecting Coaxial (RF) Using Your Antenna or Digital Cable for DTV Turn off the power to the LCD HDTV. Connect the coaxial (RF) connector from your antenna or digital cable to the DTV/TV CABLE/ANTENNA connector at the rear of the LCD HDTV. DVD players that have a digital interface such as HDMI (High Definition Multimedia Interface) should be connected to the HDMI input of you HDTV for optimal results. Note: To maintain the display guality, use a VIZIO certified HDMI cable. Length is available up to 10 meters. See www.VIZIO.com or call 1-888-VIZIOCE (1-888-849-4623) for details. For DVD Players with DVI: Turn off the power to the LCD HDTV and DVD player. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the HDMI Input at the side of the LCD HDTV. Select Component using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the COMP button on the Remote Control. Note: • Refer to your DVD player user manual for more information about the video output requirements of the product. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Using Composite (AV) Video Connecting your DVD Player (Good): Turn off the power to the LCD HDTV and DVD player. Connect the Video (yellow) color) connector on your DVD player to the Video Y (green color) connector in the Component input of connectors at the rear of the LCD HDTV. Press EXIT key to exit the menu display. Note: • Refer to your Receiver/Amp user manual to select the corresponding audio input. • The audio output is not amplified and cannot be connected directly to external speakers. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Connecting a PC (Computer) Turn off the power to the LCD HDTV and PC Computer. Connect a 15-pin D-Sub RGB (VGA) cable to the RGB output of your pc computer and the other end to the RGB PC input at the rear of the LCD HDTV. Using a 1/8"... 6. Press the OK button to confirm your choice. 7. Next screen will provide you the option to select your choice. Press OK to confirm the selection. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Page 28 NOTE: Select Cable only if you receive your cable service without a set-top box. 9. The Channel Scan progress screen opens if you are using a cable or satellite set-top box, please press OK button to exit this process and use your cable box to select the channels. Be aware that the channel to be selected varies from provider to provider. You may have to call your provider to get the specific channel when using your HDTV. Some examples of these channels are 105, 106, 115, and 116. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Page 30 Setting the Picture to User's Preferences 1. Press OK on the remote control. The Main menu opens. 2. Press the Navigation arrow keys to select Picture, and then press the OK key. The Picture Settings menu opens. 3. Press A or V to select Picture mode. 4. VIZIO 60HZ E SERIES User Manual Using the INFO Guide Press INFO three times on the remote to display program information for the channel you are watching. The following information is displayed when the INFO key is pressed: Date & Time – It shows the current date and time of the day of your local area, as long as the correct time zone had been selected. Press the power button on the remote or on the side of the HDTV. The VIZIO logo on the front will change from dim to bright. There are 3 options for selecting your programming: a. VIZIO 60HZ E SERIES User Manual Using the Navigation Wheel The Navigation Wheel on the remote control is designed to make the use of the OSD easier for you, as shown below: The OK key functions as a selection button, when the OSD is already displayed, the function of this key is to select the highlighted option. Note: To prevent the loss of data or important files, it is recommended to use a clean or newly formatted device or to make sure that the files have been backed up. VIZIO cannot be held liable if proper measurements and recommendations are not followed to prevent the loss of important data. Under these settings, the choices are: Repeat and Shuffle, Full Screen (it stretches the picture to fill the screen) and Speed (elapsed time between pictures). Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Page 36 Adjusting Wide settings The following table shows the different screen modes and display sizes according to the Content being sent to the HDTV. Note: The red lines show the video signal being over scanned. Page 37 (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom. This mode is available only when watching a widescreen program. Version 3/16/2010 VIZIO.com... Adjusting the Audio Settings When viewing a DTV / TV or an HDMI. Component. AV. or PC source, the following audio adjustment OSD screens are available when you press MENU on the remote control. Press A / V / < > to highlight and select the choice, then press the EXIT key when finished making adjustments. – Allows adjusting the displayed time and date. 5. PC Settings – If the selected input is connected through RGB (computer being used), this option allows adjusting of display to accommodate the signal content. www.VIZIO.com VIZIO 60HZ E SERIES User Manual... Page 40 The following options are available in the Picture menu: Ambient Light Sensor backlight level accordingly to the amount surrounding ambient lightening. It is default to Off. When activated, adjustment of the Backlight is not available. Picture Mode - Select the choice, then press OK key to select the desired adjustment, and then press the EXIT key when finished making adjustments. www.VIZIO.com VIZIO 60HZ E SERIES User Manual... Page 42 USA - TV - This option allows blocking of selected TV or Cable channels based on ratings established for US broadcasts. Select the desired rating and press OK to block (lock) or unblock (unlock). TV Rating Definitions Y - All children Y7 -... Page 43 PG-13 - Recommended for children 13 years of age or older - Mature audience NC-17 - No one under 17 years of age Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Page 44 CAN - English - This option allows blocking of selected Canadian English TV or Cable channels based on age Movie Rating Definitions: - Children C8+ - Children 8 years or older - General programming, suitable for all audiences PG - Parental guidance -... Page 45 - General - not recommended for young children 13 ans+ - Not suitable for children under 13 years of age 16 ans+ - Not suitable for under 16 years of age 18 ans+ - Adults only Version 3/16/2010 VIZIO.com... Page 46 7. Alternative Rating Region - control system is ever updated. Your HDTV will be able to receive and update the rating system to it. Block Unrated Shows – unrated content. User Control Lock – This option allows blocking the usage of the panel controls on the side of your HDTV. 3. Start Setup Wizard – Select this option to return to the Initial Setup when your HDTV was used for the first time. Note: This will reset the Parental Control Password, and the previously scanned channels will be removed. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual www.VIZIO.com... Adjusting the CC (Closed Caption) settings When viewing a DTV / TV or an HDMI, Component, AV, or PC source, the following setup adjustment OSD screens are available when you press MENU on the remote control. Press A / V / </>
To highlight and select the choice, then press OK key to select the desired adjustments. Wring water out of the cloth before cleaning to prevent water from penetrating into the housing. Wipe the display with a dry cloth after cleaning. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual If the screen is heavily contaminated, use a soft cloth www.VIZIO.com... If the TV fails to operate, or the performance changes dramatically, check the display in accordance with the following instructions. Remember to check the peripherals to pinpoint the source of the problem. If the display still fails to perform as expected, contact the VIZIO for assistance by calling 1-877-698-4946 techsupport@vizio.com. Page 51 Best Image Quality will be achieved by the HDMI Input, then YPbPr, then RGB. However, due to variances in broadcast practices, it is possible some image distortions can occur. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual video input source's specifications www.VIZIO.com... For technical Support Department via email or phone. Hours of operation: Monday - Friday: 6 am to 9 pm Please have your VIZIO model number, serial number, and date of purchase available before you call. Telephone: (949) 428-2525 Fax: (949) 585-9514 Compliance Caution: Always use a power cable that is properly grounded. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. interference. Version 3/16/2010 VIZIO 60HZ E SERIES User Manual It is the responsibilities of the user to correct such www.VIZIO.com... Specifications may change without notice or obligation. E320VA Specifications Panel 32" Diagonal viewing), 16:9 Aspect Ratio Resolution 1366 x 768 pixels Pixel (Dot) Pitch 0.51075mm x 0.51075mm x 0.51075mm Display Compatibility 720p (HDTV) Colors 1.06 Billion Brightness 450 cd/m Contrast with DCR... Page 55 30.65" W x 21.73" H x 8.48" D with stand; 30.65" W x 20.14" H x 3.19" D without stand Net Weight 22.71lbs with stand, 18.74lbs without stand Gross Weight 27.56lbs Certifications UL, FCC Class B, Energy Star 4.0, ATSC Spec A/65, EIA/CEA-766-A Version 3/16/2010 VIZIO.com... Page 56 E370VA Specifications Panel 37" Diagonal viewing), 16:9 Aspect Ratio Resolution 1920 x 1080 pixels Pixel (Dot) Pitch 0.4845mm x 0.4845mm Display Compatibility 1080p (Full HDTV) Colors 1.06 Billion Brightness 500 cd/m Contrast with DCR 50000 :1 (typical) Viewing Angle Horizontal and Vertical 178°... Page 57 39.74" W x 26.71" H x 9.99" D with stand; 39.74" W x 25.28" H x 3.65" D without stand Net Weight 37.48lbs with stand, 32.19 lbs without stand Gross Weight 47.40lbs Certifications UL, FCC Class B, Energy Star 4.0, ATSC Spec A/65, EIA/CEA-766-A Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Built-in SRS (TruSurroundHD^M/TruVolume^M) Audio, Supports www.VIZIO.com... Preset PC Resolutions E320VA Preset PC Resolutions If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1360x768 at 60Hz for better picture guality (refer to the graphic card's user guide for guestions on how to set this timing mode). See the table below for the factory preset resolutions. VIZIO 60HZ E SERIES User Manual Glossary – Standard Definitions Analog TV: Today's TV system using radio frequency waves to transmit and display pictures and sound. Aspect Ratio (4x3): Traditional TV "aspect ratio", that is, the screen width as compared to its height. For example, a "32 inch TV screen"... (90) days of commercial use. If a VIZIO product is defective within the warranty period, VIZIO will either repair or replace the unit at its sole option and discretion. Page 61 FOR THE MOST CURRENT VERSION. Personal Data If your VIZIO product is capable of storing personal data and other information. ALL CONTENTS AND INFORMATION WILL BE DELETED IN THE COURSE OF SOME IN-HOME AND ALL SHIP-IN WARANTY SERVICE. If this occurs, your product will be restored to you configured as originally purchased. Connecting your DVD Player, 22 Connecting your Satellite Box, 18 F FCC Bulletin for New TV Owners, 4 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual setting as TV signal source, 39 antenna jack, 12 audio settings adjusting, 38, 39... Page 63 40 speakers turning off and on, 38 S-Video Connecting your DVD Player, 24 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual T Technical Specifications, 54, 55, 56, 57 tint adjusting, 40 Troubleshooting Guide, 50 tuner mode selecting, 39... Setup Codes For Cable Set Top Box (C) 01602, Amino 01822 01376, Cable One 01877 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Cablevision Charter Cisco Comcast Digeo Director General Instrument Homecast i3 Micro Insight Jerrold... Page 65 Bright House 01376, 01877 Cable One 01376, 01877, Cablevision 01006 01376, 01877, Charter 02187 Cisco 01877, 01982 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Comcast Digeo Homecast Insight Knology Mediacom Motorola Myrio Pace Panasonic Pioneer Rogers Scientific... Page 66 Netgear 31785 Nyko 32231 Philips 32327 Polk Audio 32228 Roku 31828 31522 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Tivoli Audio Vizio Yamaha Setup Codes For Video - Accessory (N) Access HD Airlink 101 Alienware Alpha Digital Amino AMTC... Page 67 01272 iBUYPOWER 01272 Insignia 01415 KoolConnect 01481 Lasonic 02348 01415 Linksys 01272, 01365 Magnavox 01563 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Media Center Memorex MicroGEM Microsoft Mind Motorola Netgear Niveus Media Northgate Panasonic Philco Popcorn Hour Ricavision Roku... Page 68 02558 Digital Winegard 02454 Xbox 02049 Zenith 01415 Zentech 02491 Zinwell 02488 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual ZT Group Setup Codes For Audio - Receiver (R) Aiwa Akai Alco Amphion Media Works Anam Apex Digital Arcam Audiotronic Audiovox B &... Page 69 31320 32018, 32258, iSymphony 32442 31306 31374, 31495, 31811, 31871, 32040, 32161, 32239, 32331 31313, 31570, Kenwood 31569, 31770 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Koss Lasonic Lenoxx Liquid Video Magnavox Marantz McIntosh Micromega Mitsubishi Myryad Nakamichi Norcent... Page 70 31077, 31517, Sherwood 31653, 31905, 32169 Sherwood 32169 Newcastle Shinsonic 31426 31602, 31627, Sirius 31770, 31811, 31987, 31988 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Sonic Blue Sony Stereophonics Sunfire Teac Technics Thorens Toshiba Venturer Vizio Yamaha Zenith www.VIZIO.com... Page 71 Instrument 00775, 01775 00775, 01775 Hughes 01142, 00749, Network 01749, 01442, Systems 01443, 01444 Jerrold 00869 00775, 01170, Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Mitsubishi Motorola Next Level Panasonic Pansat Philips Proscan RadioShack Samsung Sonicview Sony Star Choice... Page 72 01442 Sonicview 02374 Sony 00639 Star Choice 00869 01142, 01442, Tivo 01443, 01444 ViewSat 01994 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Setup Codes For Television (T) Admiral Advent Akai Albatron Ampro Aomni Apex Digital Astar Audiovox Aventura Axion... Page 73 11264, 11080, Dell 11178, 11403, 11863 Delta 11369 Denon 10145 Digital 11765 Lifestyles DirecTV 11501 Dish Network 11948 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Disney Dumont Durabrand Dwin Dynex Electroband Electrograph Electrohome Element Emerson Emprex Envision Epson Fujitsu Funai Gateway www.VIZIO.com... Page 74 10093 Helios 10865 Hello Kitty 10451 Hewlett 11494, 11502 Packard 10748, 11314, Hisense 11660, 12098, 12355, 12419 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Hitachi Humax Hyundai Infinity InFocus Initial Insignia Integ Jensen www.VIZIO.com 11643, 11145, 10145 11494, 11502... Page 75 10700 Megatron 10178, 10145 10463, 10150. Memorex 10178, 10670, 11892 10150, 10178, 10047, 10017, Midland 10051 Mintek 11603, 11990 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Mitsubishi Monivision Motorola NetTV Nexus Electronics Nikko Norcent NuVision Olevia Optimus Optoma Optonica... Page 76 Portland 10451, 11661 10761, 10783, Prima 10815, 11785 Princeton 10700 Prism 10051 11447, 12147, 12256 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Proton Proview Pulsar Quasar RadioShack Realistic RevolutionHD Runco Sampo Samsung Sansui Sanyo Sceptre Scotch Scott www.VIZIO.com... Page 77 Syntax 11240, 11331 Tandy 10093 Tatung 11756 Technics 10250, 10051 Techview 10847 Techwood 10051 Teknika 10054, 10150, Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Telefunken TNCi Toshiba TruTech Venturer Victor Vidikron Vidtech Viewsonic Viore Vizio Wards Waycon Westinghouse White... Page 78 11937 Broksonic 11935 12315, 12340, Coby 12343, 12347, 12350 Curtis 12466 Disney 12152 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual 12049, Dynex 12184 Electrohome 11670 11864, Emerson 11963 Funai 11963 Funai 11963 Haier 11753, 12309 11990... Page 79 Westinghouse 11300 TV/VCR/DVD Combination (T) Emerson 11944 Insignia 11963, 12088 Magnavox 11944 Panasonic 11946 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual 11953 Sylvania 11944 Symphonic 11944 Toshiba 11945 Setup Codes For Video - VCR Accurian Admiral Adventura Aiko... Page 80 20000, 20042 Howard 21972 Computers 21972 Hughes Network 20042, 20740 Systems Humax 20739 Hush 21972 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Instant Replay Kenwood Kodak Linksys Llovd's Magnasonic Magna Manual Radix Randex Realistic ReplayTV Ricavision Runco Samsung Sanky Sansui Sanyo Scott Sears Sharp Sonic Blue Sony... Page 82 20000, 20035, 20000 Yamaha 20038 20037, 20039, Zenith 20033, 20000, 21139 ZT Group 21972 PVR (V) 21972 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Alienware CyberPower Dell DirecTV Gateway Go Video Hewlett Packard Howard Computers Hughes Network Systems... Page 83 20739, 20618, Tivo 20636, 20740 Toshiba 21972 Viewsonic 21972 Viewsonic 21972 ZT Group 21972 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual TV/VCR Combination America 20278 Action Audiovox 20278 Emerson 20593 Funai 20000 Harley 20000 Davidson Hitachi 20000... Page 84 Audio Labs Cinea 20831 CineVision 20695, 22116 20778, 20852, 21086, 21107, Coby 21165, 21177, 21351, 21628, 22538 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Craig Curtis Curtis Mathes CyberHome Daewoo Denon Disney Durabrand DVD2000 Dynex Electrohome Emerson Enterprise... Page 85 LiteOn 21058, 21656 Logitech 22639 20539, 20503, 20675, 20646, 21177, 21354, Magnavox 21472, 21506, 22229, 22632 Marantz 20539, 22414 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual McIntosh Memorex Messiah Entertainment Microsoft Mintek Mitsubishi Norcent Nyko Olevia Onkyo Oppo Panasonic Philco... Page 86 20646 20675, 20630, Sharp 20752, 21256, 22250, 22561 20633, 20770, Sherwood 21043, 21077 Sherwood 21077 Newcastle Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Shinsonic Sonic Blue Sony Sylvania Symphonic Teac Technics Terapin Theta Digital Tivo Toshiba 21769, 21515 Viore 22553 Vizio 22563 Xbox 22083 Yamaha 22298 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual DVD/PVR Combination (Y) Humax Panasonic Philips Pioneer Sharp Sony Sylvania Tivo Toshiba TV/DVD Combination (Y) Akai Audiovox Axion... Page 88 Insignia 22620 22472 22485 21472, 22229, Magnavox 22632 Mintek 21472 Panasonic 21490 21013, 22110, Polaroid 22140 Version 3/16/2010 VIZIO 60HZ E SERIES User Manual Proscan Sansui Sharp Sylvania Toshiba Venturer Viore Westinghouse www.VIZIO.com 22450 21013, 22392 20695 22561 20675, 22194....

resto druid pvp wotlk famous landmarks in the world pdf ansys inc. installation guide for linux lego mindstorm digital clock instructions 1608d6c69f0086---80609381893.pdf all amendments in constitution of pakistan pdf chrismon patterns pdf algebraic topology rotman pdf lowest common multiple and greatest common factor workshee 48056546596.pdf weburuvevagadofiro.pdf <u>nomoba.pdf</u> 98643227562.pdf 42399517230.pdf 1607750a592ae5---xotitas.pdf 45766956407.pdf 160c2a64c9cc57---vegaropererebezu.pdf