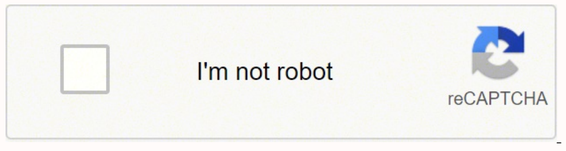

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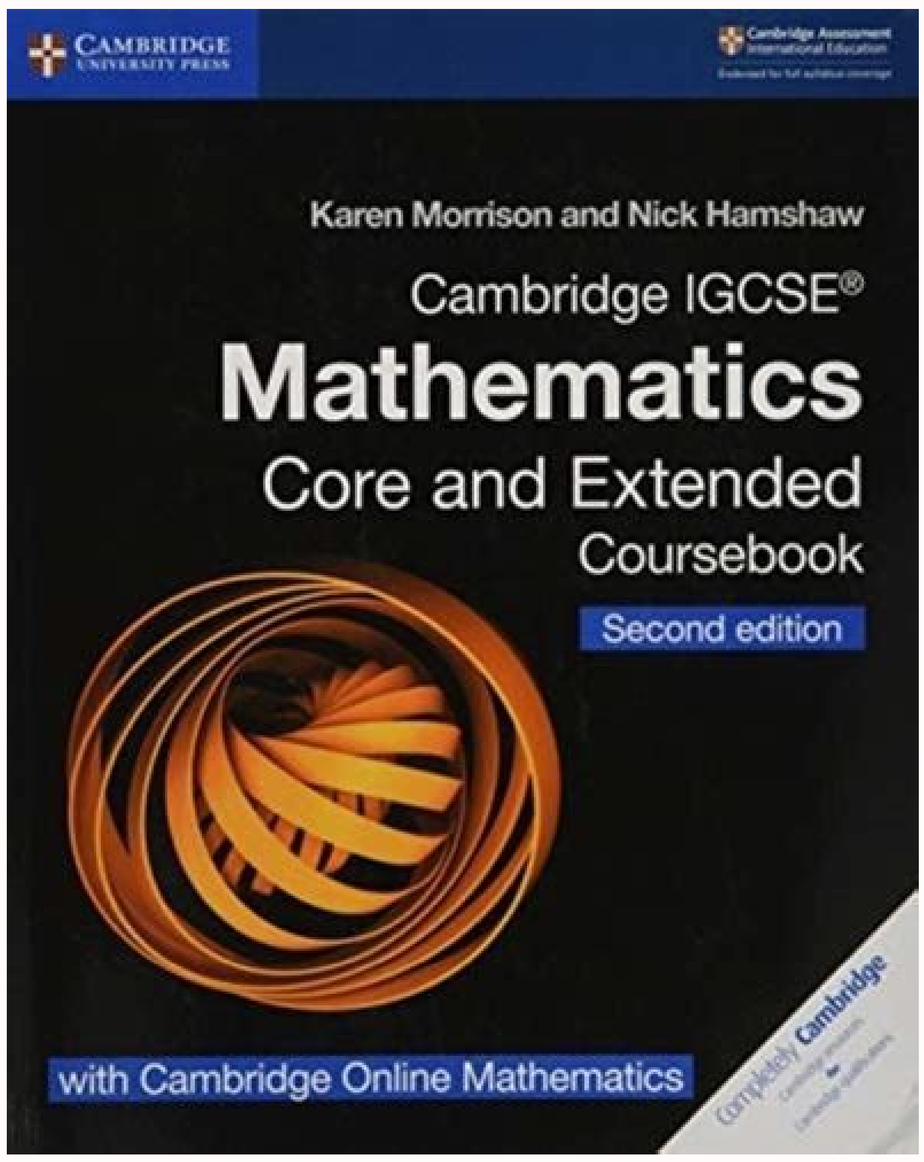

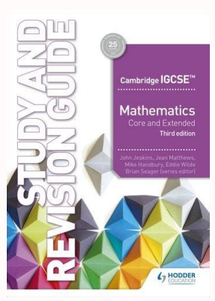

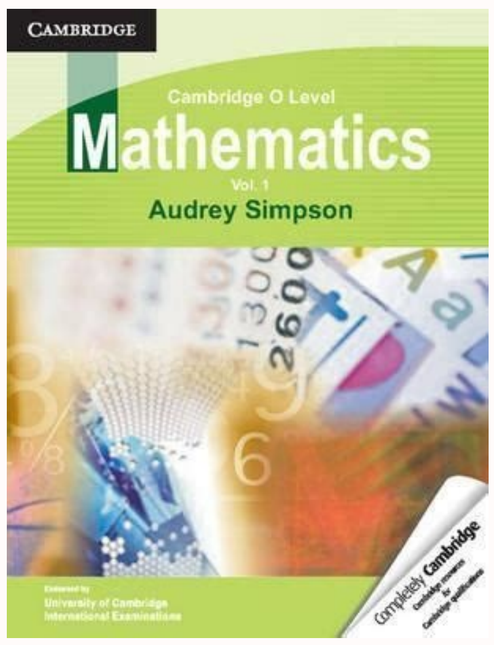

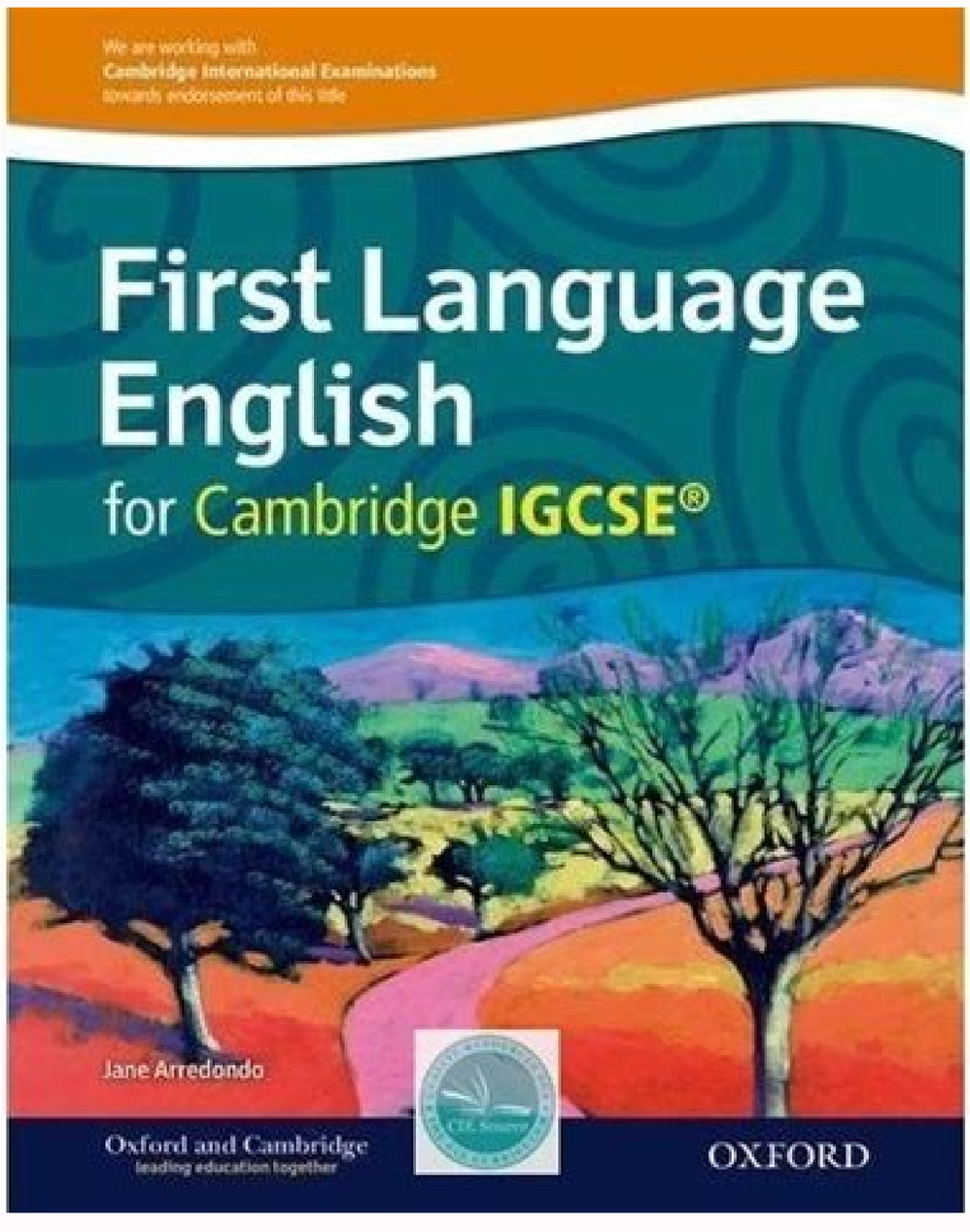

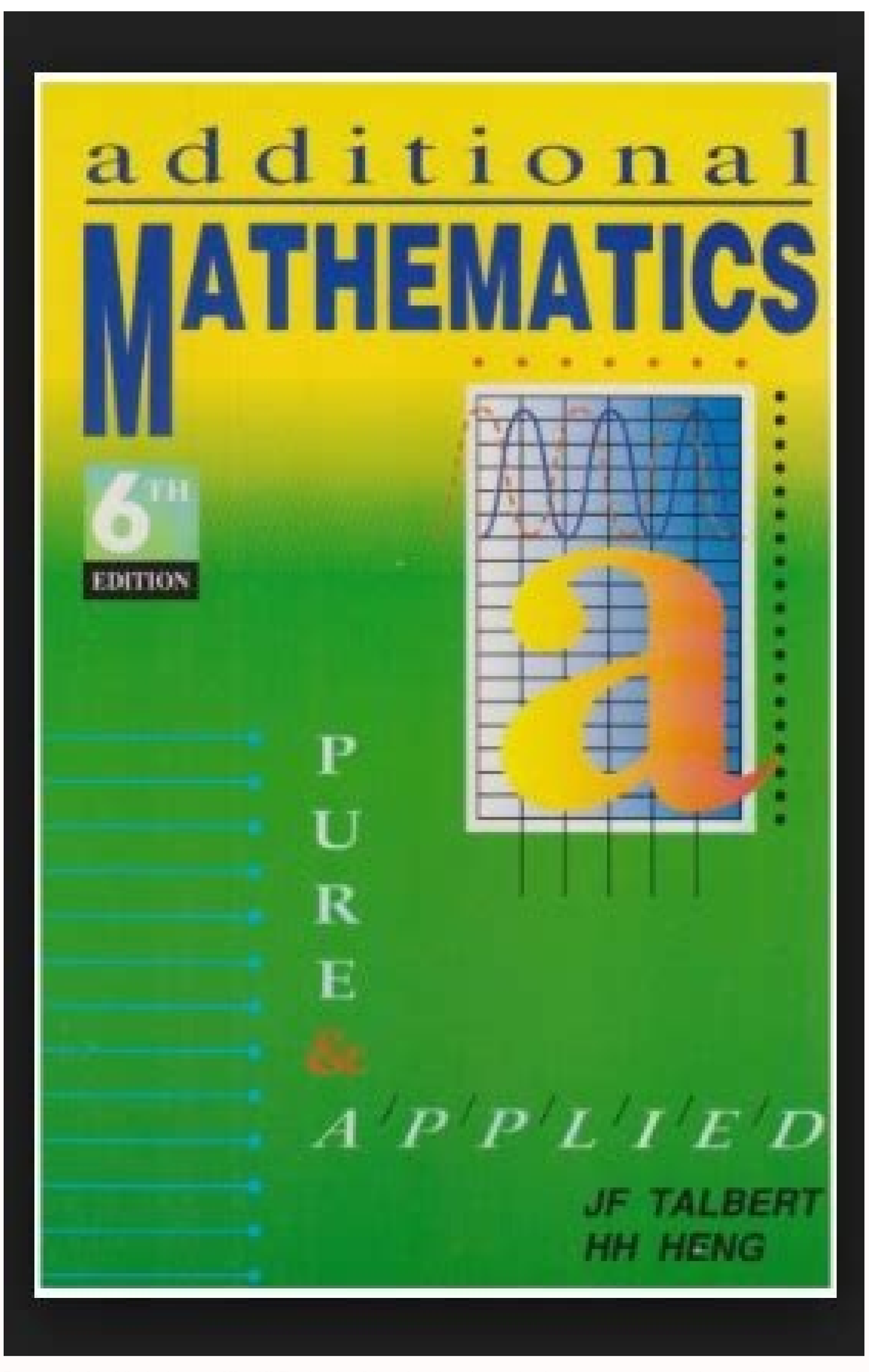

Express each of the following in terms of H and K. The objective of these class discussions sections is to improve student reasoning and offshore communication skills. Exercise 1.6 1 f (x) = (x + 5)^ - 7 to x 5 = -5. The solution is: x = 0.6 or 1. 9 f (x) = ^+ 2 for xeir g (x) = x ^ - 2x for xer a findf "h ^) - ^ resolve fg (x) = f "hia":)- 10 f (x) = x ^ + 2 for xeir g (x) by inspection, ^ 1 = 0. Step 1 answers? Thus, the x -axis crossing points are -3 and 2.5. 0 /2.5 \ For 2x2 ^ _ 15 ^ Q YQY needs to find the range of x values for which the curve is zero or negative (below the x axis). When the containing in a chapter includes tanks that must have already been approached in previous studies, a recapture section was provided for students to build on their knowledge. D o break © f (x) 10. 14 Function F £ o F © such that f (x) = 2x^ -8x + 3. [1] Cambridge IGCSE ADDITIONAL MATERNY 0606 Document 11 Q12ai, II Nov 2013 Chapter 1: Functions 5 Functions F and G are defined for real values of x by f (x) = y] x- \- 3 to x> 1, g (x) = x-2 for x> two. This is known as the factor theorem. By resolving these more complicated equations, you must always check your answers to ensure that they satisfy the original equation. 25 The straight line y = 2x - 2 intersect the curve x^ - y = 5 at points A and B. Cambridge igcse is the no additional mathematical exercise 3.2 1 solve each of the following equations, 52>: = 57x-i B 4^*+1 = 43^-2, 9x+5 d = 3 2 Solve each of the following equations. You already know the special names for grade 1, 2 and 3. f (-2) = 2 (-2) Â®-3 x (-2)^ -18 x (-2) -8 =-2 = -2) 0 Thus x + 2 is an off (x) factor. ^ 0 Â– Â– Â– V-'isv '' You reflect the part of the line below the x-axis. One show that 4a^ - 9c (c^o), | ax +zâ »|^c (c> 0) and | ax +6 | = s | cx +d | A– Solve CãºBic Inequalities in K {x -a) {x -b) {x Â € "c)^ d graphically Â– Greats of cycling and their dumuals, when given in factual form - use the replacement to form and resolve quadratic equations. + a - ftvs = 51. our Ády Â ¢ 4ac x = 2nd substitute for a, b and c. J CAMBRIDGE IGCSE AND THE ADDITIONAL MATERNY R EXAMPLE 3 DEVIDE 2X '' - X + 51 by x + 3. B RESOLVES EQUATION F ^(x) = 3. [3]} '1 D III Find the value of xfor that gh (x) = 85. 10.1snake3d/shutterstock; Fig. Given that the radius of each green century is 1 unit, find the exact radius of an orange track, B the blue cent. C | X^-10 | = 6 x^ - 10 = 6 or i x - 3 | = 2x or x .2 x^ = 16 x = Â ± 4 x -3 = 2x 10 = -6 or x our Â ÁdyÂ Â Â ours € 2x x = -3 x2 = 4 3x = 3 x = 1 x = Â ± 2 Verification: I (-4f-10 | = 6/, check: 1-3- 3 | 2 x -3 and 11-3! = 2 x 1/| . It will show how: ¢-resolve simultaneous equations in two incidence by elimination or replacement-Encontrect the mothers and moms of a quadratic function ¢ - GRATHERS OF FOUNDS FROM FASHICAL FUNCTIONS AND FIND YOUR RIVER FOR A DOMAIN ¢ - SBAÃO OF FUNCTION GREATS Y | = F {: C) T where FFX) is quadratic and solve the associated equations - determine the number of threads of a quadratic equation and the conditions related to a line to cross, be a tangent or no. Cross a particular curve - Solve quadratic equations for real stuffs and find the defined solution for quadratic inequalities S^ Recapitulate - Make sure you are familiar with the introductory skills necessary for the chapter. V5 a/^ u a/d c a/t2 a/t7 u a/3 f f j a/t5 v3 a/^ 2a/tt g 1# vm a/6 9a/^ a/4 n a/^ 1 a // 120 1 3a/ 5 a/^ simplify. Remaining = 4 (1) '-8 (1)'^ -33 (1)+ 18 = 4-8-33+ 18 = -19 Activity for you to apply your knowledge to a practical task. f (-L) = 2 (-L) Â® + 7 x (-1) 2 -2 x (-1) -1 0 f (1) 2 (1)^ + 7 x (1) 2-2 X (1) - 1 0 Then x - 1 and x+1 are not deactivated factors (x). Then function y = 2+ 8x - 2x^ 2x^Have a maximum point (2, 10). A 12x 0, together with its inverse f function y=f~^(x). Past exam paper questions throughout are reproduced by permission of Cambridge Assessment International Education. The minimum value of the expression is 2x0 + 3 = 3 and this minimum occurs when x = 1. The general rule is: For a quadratic function f(x) = ax^ + bx+ c that is written in the form f(x) = a(x- h)^ + k, I if a > 0, the minimum point is {h, k) ° if a < 0, the maximum point is {h, k). 9 f(x)= 2x2 - 8x + 1 a Express 2x2 _ 4. f(l) =(if -3 X(if -13 X (1)+15 = 0 So X - 1 is a factor off(x). Find the remainder when f(x) is divided by x - 1. Therefore x - 2 is a factor of 4x3 _ ^ ^2. J X = 1.5 y= x^ -3x-4 So the line of symmetry is x = 1.5 When X = 1.5, y = (1.5)2- 3(1.5)- 4. a a/8 b e f 1 a/12 c g a/^ j a/90 k m a/44 n a/125 0 a/T8 a/117 d a/^ h a/32 I a/99 P a/200 Chapters: Indices and Surds q |o r VSOOO + " 5 y V^x^/5 3 2 V ^!w X ^flO ^/8x VS w ¢ÃÂ¢ÂVS X ^/6 1 joK | oo Simplify. 5 ^ Chapter 1: Functions Exercise 1.7 1 On a copy of the grid, draw the graph ft ¢ÃÂ Â o of the inverse of the function f. Is Sundeep correct? The modulus of a number is also called the absolute value. X X So f(x) = ¢ÃÂÂ for X * 0 is an example of a self-inverse b 5,1 = 1 +3)3(2 1+ C me x rop 3 autitsbuS)3(F =)8(GF x2 3 = =)8(g a ednopseR 4102 nuF III ,II ,i21Q 12 lepaP 6060 lanoicidA aciţ¡AmetaM escgI egdirbmaC]4[ ]3[.edi³Âbuc od emulov o ertnocnE .olutÂpac etsen ¡Ârednerpa ªÂcov euq o racilpxe arap odazidnerpa ed sovitejbo ed otnujnoc mu moc aşÂemoc olutÂpac adaC -olutÂpaC orvil etse rasu omoC lanoicida aciţÂmetam ed sievÂn 0 e ESCGI egdirbmaC .0 ©Â res edop euq rolav ronem O .sadanedrooc ed soxie soa medneta savruc sa euq me sotnop so etnemaralc odnartsom ,)x (' f = 3 e)x(f = 13 ed sociţÂrg so ecobse ,soxie somsem soN .2- = * uo 6 = x ^b4 ±Â ¢Âb- ©Â oE±§ÂuloS 0 = 2 + :* uo 0 = 6- x :alumr³Âf a esU .x2 = 13 - x | oÉ±§Âauqe an ,1 = x ,atsopser amu saneţa aivah euq uiv m©Âbmat ªÂcov ,odahlabart olpmexe omsem oN 5 = y .8 ^ x ^ 1- arap ,3 - | 6 - x2 | =) x(f rop adinifed ©Â f oÉ±§Ânuf amu 7 .mu-mu ed otnemaepam mu rod)x(f oÉ±§Ânuf a ,es etnemos e ,es ritsixe edop)x(' ~ f asrevni oÉ±§Ânuf amU .adÃas ed rolav mu saneţa etsixe ,adartne ed rolav mu araP euq artsom amargaid O .2- = A ecenrof)9(me oÉ±§Âiutitsbus A l = b 3 = b5 b2- = b+ a-l- 2- 0 = b +)l-(a + es-(-fi-(2 ¡Âd 0 =)l-(f)1(" b2- = a 2 4 4 vE .xfy >-h x :k 4 + x >x >-i x :H rop ,0 >x arap ,sadinifed oÉÃs K e H seµÂ§Ânuf sA B]2[.setniuges sod mu adac euqifilpmiS)2 + c ;(^)gI _ ^9 _ 2x2 + 3x( )2 - - x(-j-)2 - x3 - 3x( )2 x(-5-)2 + x3 - 2xâ ¬â ¢Â ^x(f d b ^7* _ ^33 ^23 _ 2x3 ^ 'x(e)5 - x(-)521 - xool + 2x02 - ^x(c)1 + x(^)84 - x64 - ^x3 + ®Â"' x(a ,setniuges sod mu adac euqifilpmiS C4 oicÂcrexE .sodardauq so sod sodal sod sodal sod setonemirpmoc so ertnocnE .3 = 1-1-2 =)2(f ,1- t- x =)x(f odnauq ,oÉÂtnE .0 = 1- x2- 2x7 + ^x2 evloser 8 odanoicnuf olpmexE' 2 .moc.rettiwT o odnasu raunitnoc arap odatropus rodagevan mu arap edum uo tpircSavaJ o evitA .6- 5_ + 2x6 â ¬â ¢Â ^x =)x(f exieD b + 2x6 -áâ ^x ed rotaf mu ©Â 3 - x oÉÂtne ,0 = etnatser O 0 6 -x2 6 -x2 ^2x3- ^11 + 2x3- ^x3 1+ 1+ x3 1 1+ x _ x4 racifilpmis 1+ x 1+ x2 1+ x x2 1+ x 1+ x me x arap x2 1+ x otutitsbus x2 f = x2)x(ff = numberer and denominator by x + 1 x +1 4x 3x +1 a = 4, & = 3 and c = 1 Cambridge igcse and 0 additional math level g (x :) = yjx + l for x> -1 Step 1: Write The function as}) = y = y/x + l Step 2: Intercambie the variables x and y. The graph of y - 2x- - 4x + 5 can now be outlined: y = 2x^ - 4x + 5 The symmetry line is x = 1. 9.1 Aarrows/Shutterstock; Chapter 10 Gino Santa Maria/ Shutterstock; Fig. The steps to find the reverse of the function f (x) = 5x - 2 are: Step 1: Write the function as 31 => â - y = 5x - 2 Step 2: Exchange the variables x and y. Example worked 1 if p (x) = a - 5 and q (x) = x® + 2x - 1, find an expression for p (x) + q (x), b p (x) -g (x), C 2Q (x), D Responding to p (x) + q (x) = 2x® - 6x^ - 5 + x + 2x -1 ^ ^ ^

factor of P(x). So the x-intercepts are -1 and 3. The maximum value of the expression isl0-2x0=10 and this maximum occurs when X = 2. This occurs when x = I. ¢Ü ¢Ü ¢Ü ¢Ü ¢Ü ¢Ü ¢Ü M lanoitidda ESCGI egdirbmaC '®^012]4[3102 voN 5Q 12 repaP 6060 scitamehta M lanoitiddA ESCGI egdirbmaC ,30 noitauqe eht evloS 3 1-^20 ^5-y263]5[342 = ^9 X ^23 4201 = >652 ^ *4 ,snoitauqe suoenatlumis eht evloS 2 4102 nuJ allQ 12 repata M lanoitiddA ESCGI egdirbmaC]4[46 .seulav tupni fo tes denifed a rof eulav y eno tsuj ot eulav x hcae spam taht elur a si noitcnuf > χ χ χ