QEQFII L3 Solving Quadratic Eqns Using the Quadratic Formula again

Thursday, October 6, 2022 9:07 AM



QEQFII L3 Solving Quadratic Eqns Using the Quadratic For...

Lesson 3 The Quadratic Formula...again

Example 1

Solve, using the quadratic formula:

a) (2x+1)(x-1) = 5x $2x^{2} - 2x + x - 1 - 5x = 0$ $2x^2 - 6x - 1 = 0$ $X = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ a=2 6=-6 c = -1 $x = \frac{6 \pm \sqrt{36 - 4(a)(-1)}}{a(a)}$ $X = \frac{6 \pm \sqrt{44}}{4}$ $X = \frac{6 \pm a \sqrt{11}}{4} \longrightarrow X = \frac{3 \pm \sqrt{11}}{2}$ b) $\frac{1}{2}x^2 - \frac{5}{2}x = 3^4$ + must be in the form ax²+bx+c=0 $2x^{2} - 5x - 12 = 0$ $x = \frac{5 \pm \sqrt{25 - 4(2)(-12)}}{2(2)}$ a=2 b=-5 12-12 $\times = \frac{5 \pm \sqrt{121}}{4}$ x = 5 + 11 x = 5 - 11y = 4x = 4 $x = -\frac{3}{2}$

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c.) $2x^4 + 5x^2 - 12 = 0$ $x^{2} = -\frac{5 \pm \sqrt{5^{2} - 4(a)(-1a)}}{a(a)}$ $x^{2} = -\frac{5 \pm 11}{4}$ $x^{a} = -5 + 11$ $x^{2} = -5 - 11$ 4 × rej $x^{-\frac{3}{2}}$ ф X = + [] <u>Assign</u> Pg 281 # 3e,h,i,j 4a,d,e,g 7b,c,d