

Q.F. $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$; discriminant = $b^2 - 4ac$ Key 28 real roots

Practice on the Quadratic Formula for Algebra II

I. Solve using the quadratic formula. Show your work!

1. $4x^2 - 9x + 2 = 0$

$$x = \frac{9 \pm \sqrt{81 - 4(4)(2)}}{2(4)}$$

$$x = \frac{9 \pm \sqrt{49}}{8} = \frac{9 \pm 7}{8} \Rightarrow \frac{9+7}{8} = \frac{16}{8} = 2, \frac{9-7}{8} = \frac{2}{8} = \frac{1}{4}$$

$$x = 2, \frac{1}{4}$$

4. $3x^2 + 2x - 2x^2 - 1$

$$x^2 + 2x + 1 = 0$$

$$x = \frac{-2 \pm \sqrt{4 - 4(1)(1)}}{2(1)}$$

$$x = \frac{-2 \pm \sqrt{0}}{2} = \frac{-2}{2} = -1$$

$$x = -1$$

2. $x^2 + 5x + 3 = 0$

$$x = \frac{-5 \pm \sqrt{25 - 4(1)(3)}}{2(1)}$$

$$x = \frac{-5 \pm \sqrt{13}}{2}$$

5. $x^2 - 5 = 2x - 1$

$$x^2 - 2x - 4 = 0$$

$$x = \frac{2 \pm \sqrt{4 - 4(1)(-4)}}{2(1)}$$

$$x = \frac{2 \pm \sqrt{20}}{2}$$

$$x = \frac{2 \pm 2\sqrt{5}}{2} = 1 \pm \sqrt{5}$$

3. $x^2 - 6x + 2 = 0$

$$x = \frac{6 \pm \sqrt{36 - 4(1)(2)}}{2(1)}$$

$$x = \frac{6 \pm \sqrt{28}}{2}$$

$$x = \frac{6 \pm 2\sqrt{7}}{2} = 3 \pm \sqrt{7}$$

6. $5x^2 + 0 = -x + 8$

$$5x^2 + x + 1 = 0$$

$$x = \frac{-1 \pm \sqrt{1 - 4(5)(1)}}{2(5)}$$

$$x = \frac{-1 \pm \sqrt{-19}}{10} = \frac{-1 \pm i\sqrt{19}}{10}$$

II. A. Find the discriminant and B. state the nature and number of solutions to the following quadratic equations.

7. $2x^2 - x + 4 = 0$

A: $disc = 1 - 4(2)(4) = -31$

B: 2 complex solutions (since $disc < 0$)

8. $-8x^2 - 5x = -x^2 - 1$

$$-7x^2 - 5x + 1 = 0$$

A: $discr = 25 - 4(7)(-1) = 53$

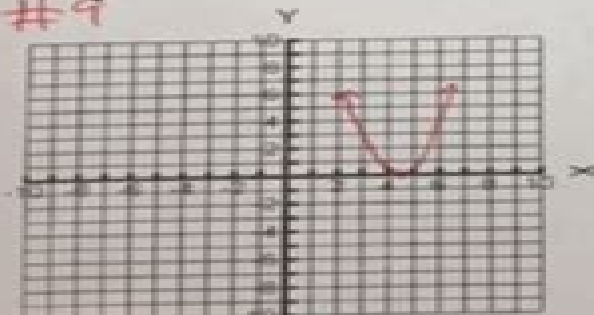
B: 2 real solutions (since $disc > 0$)

III. Short answer

9. Sketch a quadratic function whose value of the discriminant equals zero.

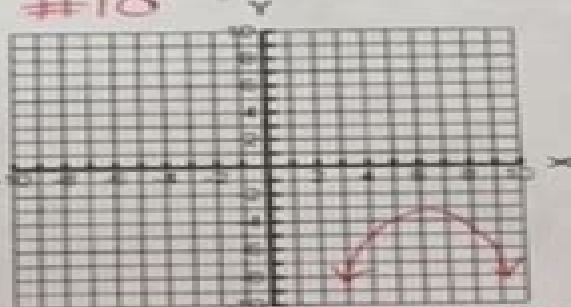
10. Sketch a quadratic function that has two complex solutions.

#9



open ended question: it's correct as long as only has one x-intercept

#10



open ended question: it's correct as long as graph has no x-intercepts

Extra Example



2 real solutions since its graph has two x-intercepts

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David Alcorn



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