

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

Practice on the Quadratic Formula for Algebra II

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

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

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

$$x = \frac{9 \pm \sqrt{49}}{8} = \frac{9 \pm 7}{8}$$

$\frac{9+7}{8} = \frac{16}{8} = 2$   
 $\frac{9-7}{8} = \frac{2}{8} = \frac{1}{4}$

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

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

$$3x^2 + 2x + 1 = 0$$

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

$$x = \frac{-2 \pm \sqrt{0}}{6} = -\frac{2}{6} = -\frac{1}{3}$$

$x = -\frac{1}{3}$

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

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

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

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

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

$\frac{\sqrt{20}}{2} = \frac{\sqrt{4 \cdot 5}}{2} = \frac{2\sqrt{5}}{2} = \sqrt{5}$

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

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

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

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

$\sqrt{28} = \sqrt{4 \cdot 7} = 2\sqrt{7}$

6.  $5x^2 + 9 = -x + 8$

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

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

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

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

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

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

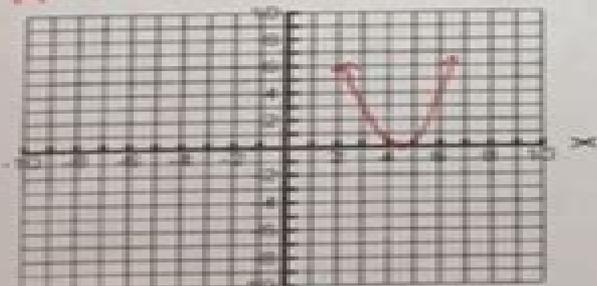
B: 2 real solutions (since  $disc > 0$ )

III. Short answer

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

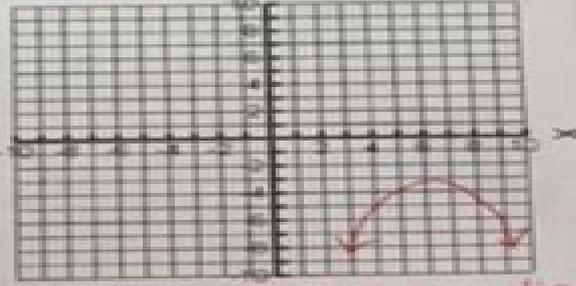
10. Sketch a quadratic function that has two complex solutions.

#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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