66 **Which statement *best* explains why there is no real solution to the quadratic equation $2x^2 + x + 7 = 0$?**

A The value of $1^2 - 4 \cdot 2 \cdot 7$ is positive.

B The value of $1^2 - 4 \cdot 2 \cdot 7$ is equal to 0.

C The value of $1^2 - 4 \cdot 2 \cdot 7$ is negative.

D The value of $1^2 - 4 \cdot 2 \cdot 7$ is not a perfect square.

CSA10147

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67 **What is the solution set of the quadratic equation $8x^2 + 2x + 1 = 0$?**

A $\left\{-\frac{1}{2}, \frac{1}{4}\right\}$

B $\left\{-1 + \sqrt{2}, -1 \quad \sqrt{2}\right\}$

C $\left\{\frac{-1+\sqrt{7}}{8}, \frac{-1-\sqrt{7}}{8}\right\}$

D no real solution

CSA10179

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68 **What are the solutions to the equation**

$$3x^2 + 3 = 7x?$$

A $x = \frac{7+\sqrt{85}}{6}$ or $x = \frac{7-\sqrt{85}}{6}$

B $x = \frac{-7+\sqrt{85}}{6}$ or $x = \frac{-7-\sqrt{85}}{6}$

C $x = \frac{7+\sqrt{13}}{6}$ or $x = \frac{7-\sqrt{13}}{6}$

D $x = \frac{-7+\sqrt{13}}{6}$ or $x = \frac{-7-\sqrt{13}}{6}$

CSA00224

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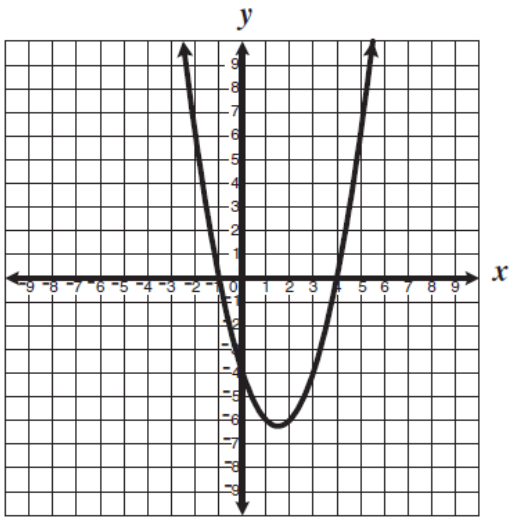
69 **The graph of the equation $y = x^2 - 3x - 4$ is shown below.**



For what value or values of x is $y = 0$?

A $x = -1$ only

B $x = -4$ only

C $x = -1$ and $x = 4$

D $x = 1$ and $x = -4$

CSA00514

Answers

66	*C*
67	*D*
68	*C*
69	*C*