

Solving Quadratic Equations

| Name: | Date: |
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(x-6)(x+1)=0

What is the solution to the equation above?

$$x = -6$$

$$x = -6, x = 1$$

$$x^2 - 5x - 6$$

$$x = 6, x = -1$$

Correct Answer: A B C D

Correct Answer: A B C D

Explanation:

Explanation:

| a. | $x = \frac{-3 \pm \sqrt{9 - 4 \times 2}}{2 \times 2}$ | 2×4 | b. | $x = \frac{3 \pm}{}$ | $\frac{\sqrt{-9+4\times2\times4}}{2\times2}$ | |
|----|---|-----|----|----------------------|--|--|

 $2x^2 - 3x - 4 = 0$

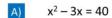
c.
$$x = \frac{3 \pm \sqrt{-9 - 4 \times 2 \times 4}}{2 \times 2}$$
 d. $x = \frac{3 \pm \sqrt{9 + 4 \times 2 \times 4}}{2 \times 2}$

Solve $x^2 - 3x - 40 = 0$

Step 1:



What should go in the shaded box?



B)
$$x - 3 - 40 = 0$$

$$(x-5)(x+8)=0$$
 $(x+5)(x-8)=0$

$$(x + 5)(x - 8) = 0$$

| Correct Answer: A B C D |
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| Explanation: |
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Factorise and Solve

$$x^2 + 8x - 20 = 0$$

a)
$$x = 10$$
 and $x = -2$ c) $x = -10$ and $x = -2$

b)
$$x = -10$$
 and $x = 2$ d) $x = -8$ and $x = 20$

Explanation:

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(x-2)(x-3)=0

What is the solution to the equation above?

$$x = -2, x = -3$$

$$x = 2, x = 3$$
 $x^2 - 5x + 6$

Correct Answer: A B C D

Explanation:

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Three of the following statements are true and **one** is false. Which one is **false**? **A** Given $x^2 - 5x + 6 = 0$ then either x - 2 = 0 or x - 3 = 0. **B** Given $x^2 + x - 6 = 0$ then either x - 2 = 0 or x + 3 = 0. **C** Given $x^2 - 10x - 24 = 0$ then either x - 6 = 0 or x + 4 = 0. **D** Given $x^2 + 2x - 24 = 0$ then either x + 6 = 0 or x - 4 = 0.

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Correct Answer: A B C D Explanation:

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In this equation what is the value of "b"? $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $5x^2 + x + 7 = 0$ A) 0B) 7C) xD) 1

Correct Answer: A B C D

Explanation:

| According to the graph, what is the approximate solution to the equation: $x^2 + 3x - 4 = -8$ | 6 5 4 3 2 1 0 2 3 2 2 3 5 8 |
|---|-----------------------------------|
| x = -4 | x = 4, $x = -1$ |
| x = -4, $x = 1$ | D No real solutions |

| Correct Answer: A B C D |
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| Explanation: |
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