

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 $x = 20$

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

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

What is the solution to the equation above?

- A** $x = -2, x = -3$ **B** $x = 6$
C $x = 2, x = 3$ **D** $x^2 - 5x + 6$

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

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 $x - 4 = 0$.

Copyright © OCR

Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

In this equation what is the value of "b"?

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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

- A) B)
C) D)

www.coopsonline.co.uk

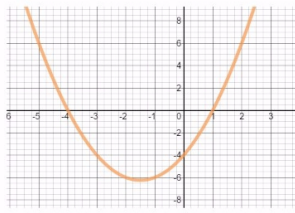
Correct Answer: A B C D

Explanation:

.....
.....
.....
.....
.....

According to the graph, what is the approximate solution to the equation:

$$x^2 + 3x - 4 = -8$$



A $x = -4$

B $x = 4,$
 $x = -1$

C $x = -4,$
 $x = 1$

D No real solutions

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....