
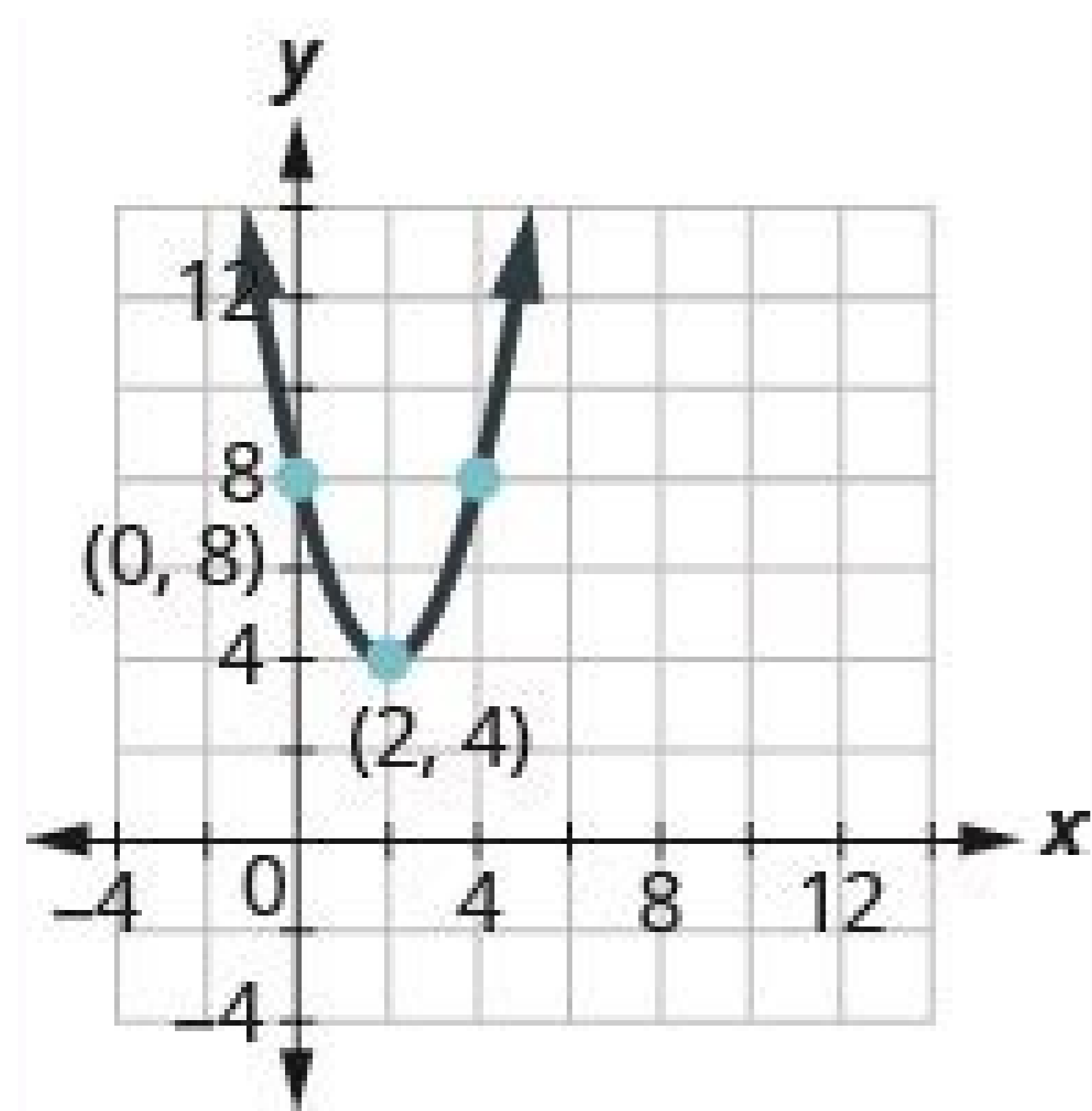


Find the solution of each of the following quadratic equation by completing the square

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Let base of the right triangle $(b) = x$
 Therefore, altitude $(p) = x - 7$
 Given, hypotenuse $(h) = 13\text{cm}$
 Now, we know that, $h^2 = p^2 + b^2$
 Therefore, $13^2 = (x - 7)^2 + x^2$
 $\Rightarrow 169 = x^2 + 49 - 14x + x^2$
 $\Rightarrow 169 = 2x^2 - 14x + 49$
 $\Rightarrow 2x^2 - 14x + 49 - 169 = 0$
 $\Rightarrow 2x^2 - 14x - 120 = 0$
 $\Rightarrow 2(x^2 - 7x - 60) = 0$
 $\Rightarrow x^2 - 7x - 60 = 0$
 $\Rightarrow x^2 - 12x + 5x - 60 = 0$
 $\Rightarrow x(x - 12) + 5(x - 12) = 0$
 $\Rightarrow (x + 5)(x - 12) = 0$

$$\left(x + \frac{b}{2 \cdot a}\right)^2 = \frac{b^2}{4 \cdot a} - \frac{c}{a}$$

$$ay^2 + by = -c$$

$$y^2 + 2y = 4$$

$$a = 1 \quad x = \frac{-6 \pm [6^2 - 4(1)(-7)]^{\frac{1}{2}}}{2(1)}$$

$$b = 6 \quad x = \frac{-6 \pm [36 + 28]^{\frac{1}{2}}}{2}$$

$$c = -7 \quad x = \frac{-6 \pm [64]^{\frac{1}{2}}}{2}$$

Which reduces to $x = \frac{-6 \pm 8}{2}$

And yields $x = -7, 1$

Find the solution of each of the following quadratic equation by completing the square brainly. Find the solution of each of the following quadratic equation by completing the square $s^2 + 4s - 21 = 0$. Find the solution of each of the following quadratic equation by completing the square $x^2 - 2x = 3$. Find the solution of each of the following quadratic equation by completing the square $4x^2 - 32x = -28$. Find the solution of each of the following quadratic equation by completing the square $t^2 + 10t + 9 = 0$. Find the solution of each of the following quadratic equation by completing the square $x^2 + 14x = 32$. Find the solution of each of the following quadratic equation by completing the square $r^2 - 10r = -17$.

Answer: $x_1 = -7, x_2 = 3$ Step by step: Complete the square Answer: 3 and -7 Step by step: Take the coefficient of the second term