TOPIC: THE QUADRATIC FORMULA

Intro to the Quadratic Formula

◆ The solution(s) to _____ quadratic equation $ax^2 + bx + c = 0$ can be found using the **quadratic formula**.

New

$$x = \text{———————————}$$

(The Quadratic Formula)

EXAMPLE Find the solution(s) using the quadratic formula.

(A) $2x^2 - 3x - 5 = 0$

(B) $x^2 - 8x + 16 = 0$

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PRACTICE Find the solution(s) using the quadratic formula.

(***A***) $x^2 + 6x - 7 = 0$

(***B***) $\frac{3}{2}z^2 - \frac{5}{4}z - 1 = 0$

(***C***) $4x^2 - 4x + 1 = 0$

PRACTICE Find the solution(s) using the quadratic formula.

(***A***) $4(x-2)^2 - 5 = x + 7$

(***B***) $\frac{3}{2}(x+5)^2 - 4 = x + 1$