

WARM UP

Solve using the **Zero Product Property**

(Psst... this is a few weeks back in your notes!)

$$2x(x - 1) = 0$$

$\underbrace{2x}_{\#1} = 0$ $\underbrace{x-1}_{\#2} = 0$
 ~~$2x = 0$~~ ~~$x - 1 = 0$~~
 $\frac{2}{2} \quad \frac{2}{2}$ $\frac{x-1}{+1 \quad +1}$
 $x = 0$ $x = 1$

Solve using the **quadratic formula**.

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

$$2x^2 - 17x + 8 = 0$$

$$a = 2 \quad b = -17 \quad c = 8$$

$$x = \frac{-(-17) \pm \sqrt{(-17)^2 - 4(2)(8)}}{2(2)}$$

calculator

$$x = \frac{17 \pm \sqrt{225}}{4} = \frac{17 \pm 15}{4}$$

$$x = \frac{17-15}{4} = \frac{2}{4} = \boxed{.5} \quad \cdot \quad \frac{17+15}{4} = \frac{32}{4} = \boxed{8}$$