October 25, 2024

SOLVING QUADRATICS

- 1) Finding zeros (x-intercepts) on calculator. 2) Factoring 3) Completing the Square 1) Quadratic Formula

Factoring $(x+\tau)(x-4)=0$ $x^{2}-4x+7x-28=0$ $x^{2}+3x-28=0$ $F^{2}-6x$ (x-2)(x-6)=0 (x-2)(x-6)=0

$$\begin{array}{c} 4c^{2} = 20c \\ 4c^{2} - 20c = 0 \\ 4c(c-5) = 0 \\ \hline 4c(c-5) = 0 \\ \hline \frac{4}{4} = \frac{9}{4} + \frac{2}{c-5} \\ \hline c = 0 \\ \hline x^{2} = 25 \\ \hline x^{2} = 25 = 0 \\ \hline x^{2} = 25 \\ \hline x^{$$

Roots: -7,
$$\frac{2}{3}$$

Find eq. - Work factoring problem backwards.
 $X = -7$ $3 \cdot X = \frac{2}{3} \cdot \frac{3}{3}$
 $X + 7 = 0$ $3X = 2$
 $3X - 2 = 0$
 $(X + 1)(3X - 2) = 0$
 $3X^{2} - 2X + 2|X - 14 = 0$
 $3X^{2} + 19X - 14 = 0$

