



Solving Quadratic Equations by factoring out the GCF

(Also remember the zero product property)

Ex. 1 $x^2 - 3x = 0$

$x(x - 3) = 0$

$x = 0$ $x = 3$

Ex. 2 $4x^2 + x = 0$

$x(4x + 1) = 0$

$x = 0$ $x = -\frac{1}{4}$

Ex. 3 $4x^2 = 16x$

$4x^2 - 16x = 0$

$4x(x - 4) = 0$

$x = 0$ $x = 4$

Ex. 4 $7x^2 = -42x$

$7x^2 + 42x = 0$

$7x(x + 6) = 0$

$x = 0$ $x = -6$

Ex. 5

$-4x^2 + 10x = 0$

$2x(-2x + 5) = 0$

$x = 0$ $x = \frac{5}{2}$

Factoring Quadratic Expressions Algebra Answer Key

Yi-Tong Ma



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