

How to Factor Quadratic Equations

Example #1

$$x^2 + 6x + 8 = 0$$

$$x^2 + 6x + 8 = 0$$

$$(x+4)(x+2) = 0$$

$$\begin{array}{r} x+4=0 \\ -4 \quad -4 \\ x=-4 \end{array}$$

$$\begin{array}{r} x+2=0 \\ -2 \quad -2 \\ x=-2 \end{array}$$

$$x = \{-4, -2\}$$

Example #2

$$x^2 + 6x = 12$$

$$x^2 + 4x - 12 = 0$$

$$(x+6)(x-2) = 0$$

$$\begin{array}{r} x+6=0 \\ -6 \quad -6 \\ x=-6 \end{array}$$

$$\begin{array}{r} x-2=0 \\ +2 \quad +2 \\ x=2 \end{array}$$

$$x = \{-6, 2\}$$

Example #3

$$2x^2 - x - 6 = 0$$

$$2x^2 - x - 6 = 0$$

$$(2x+3)(x-2) = 0$$

$$\begin{array}{r} 2x+3=0 \\ 2x=-3 \\ x=-3/2 \end{array}$$

$$\begin{array}{r} x-2=0 \\ +2 \quad +2 \\ x=2 \end{array}$$

$$x = \{-\frac{3}{2}, 2\}$$

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L Reisser



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nitrite perphosphate hypoiodite chlorite phosphite percarbonate bromate hyposulfite permanganate carbonite co_3^{2-} mno_3^- so_5^{2-} bro_2^- co_4^{2-} po_5^{3-} clo_1^- io_2^- po_4^{3-} no_2^- so_4^{2-}

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names and formulas of some polyatomic ions are found in the below figure and table

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