mashup math

How to Factor Quadratic Equations

Example #1

$$x^{2}+6x+8=0$$
 $x^{2}+6x+8=0$
 $(x+4)(x+2)=0$
 $x+4=0$
 $x+2=0$
 $x=-4$
 $x=-2$
 $x=-4$
 $x=-2$

Example #2

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

 $x^{2}+4x-12=0$
 $(x+6)(x-2)=0$
 $x+6=0$
 $x=6=6$
 $x=6=6$
 $x=6=6$
 $x=6=6$
 $x=6=6$

Example #3

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

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

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

$$2x+3=0 \quad x-2=0$$

$$2x+3=0 \quad x-2=0$$

$$2x=-3 \quad x=2$$

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

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