

A) Original Problem
 $x^2 + 3 = -4x$

A)
 $x^2 + 4x + 3 = 0$

A)
 $x^2 + 4x = -3$

A)
 $x^2 + 4x + 4 = -3 + 4$

A)
 $(x + 2)^2 = 1$

A)
 $x + 2 = \pm 1$

A)
 $x = -1$ or $x = -3$

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B) Original Problem
 $x^2 = 5x + 2$

B)
 $x^2 - 5x - 2 = 0$

B)
 $x^2 - 5x = 2$

B)
 $x^2 - 5x + \frac{25}{4} = 2 + \frac{25}{4}$

B)
 $(x - \frac{5}{2})^2 = \frac{33}{4}$

B)
 $x - \frac{5}{2} = \frac{\pm\sqrt{33}}{2}$

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 $x = \frac{5}{2} \pm \frac{\sqrt{33}}{2}$ or $\frac{5 \pm \sqrt{33}}{2}$

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C) Original Problem
 $2x^2 - 12x + 10 = 0$

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Original Problem
 $ax^2 + bx + c = 0$

$$ax^2 + bx = -c$$

$$x^2 + \frac{b}{a}x = \frac{-c}{a}$$

$$x^2 + \frac{b}{a}x + \frac{b^2}{4a^2} = \frac{b^2}{4a^2} - \frac{c}{a}$$

$$\left(x + \frac{b}{2a}\right)^2 = \frac{b^2 - 4ac}{4a^2}$$

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

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

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