

Solve each equation by factoring.

April 5

1) $x^2 - 64 = 0$

$$(x+8)(x-8) = 0$$

(Note: In the original image, the 0 is written as 0+8 in green)

either $x+8=0$ or $x-8=0$

$$x = -8$$

$$x = 8$$

Solution Set

$$\{-8, 8\}$$

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$+4x$ $+4x$

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

$\times (3)$

$+ (4)$

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

$$(x+1)(x+3) = 0$$

1, 3

either $x+1$ or $x+3 = 0$

$$x = -1$$

$$x = -3$$

SS $\{-1, -3\}$

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3) $4n^2 = 12 - 8n$

$$\frac{4}{4}n^2 + \frac{8n}{4} - \frac{12}{4} = 0$$

$$4(n^2 + 2n - 3) = 0$$

$$4(n^2 + 2n - 3) = 0 \quad \times (-3)$$

$$4(n-1)(n+3) = 0 \quad + (2)$$

either $n-1=0$ or $n+3=0$ ^{-1, 3}

$$n=1$$

$$n=-3$$

SS
{ 1, -3 }



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4) $4m^2 + 196 = -56m$

$$\frac{4m^2}{4} + \frac{196}{4} + \frac{56m}{4} = 0$$

$$4(m^2 + 49 + 14m) = 0$$

$$4(m^2 + 14m + 49) = 0$$

$$4(m+7)(m+7) = 0$$

either

$$m+7=0 \text{ or } m+7=0$$

$$m = -7$$

$$\begin{array}{r} \times 49 \\ + 14 \\ \hline \end{array}$$

$$7, 7$$

$$\left\{ -7 \right\}$$

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5) $p^2 - 35 = -2p$
