Bellwork   Alg 2A   Monday, March 6, 2017

Solve each equation by factoring.

1. $12m^2 - 28m = 0$

2. $w^2 + 5w = 24$

3. $18x^2 - 12 = 15x$

4. $18c^3 - 50c = 0$

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ANSWERS

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1. $12m^2 - 28m = 0$

$$4m(3m - 7) = 0$$

$$m = 0, \ ^7/_3$$

2. $w^2 + 5w = 24$

$$w^2 + 5w - 24 = 0$$

$$(w + 8)(w - 3) = 0$$

$$w = -8, 3$$

3. $18x^2 - 12 = 15x$

$$18x^2 - 15x - 12 = 0$$

$$3(6x^2 - 5x - 4) = 0$$

$$-\frac{-24}{-8 \diagup 3 \diagdown -5}$$

	$3x$	-4
$2x$	$6x^2$	$-8x$
$+1$	$+3x$	-4

$$3(3x - 4)(2x + 1) = 0$$

$$x = \ ^4/_3, \ -^1/_2$$

4. $18c^3 - 50c = 0$

$$2c(9c^2 - 25) = 0$$

$$2c(3c + 5)(3c - 5) = 0$$

$$c = 0, \ \pm\frac{5}{3}$$

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