

Algebra 1 8.9 $(x)(x) \leftarrow 3:30$
 Factor perfect square trinomials
 Solve equations involving perfect squares
 $(x)(x) = 0$

$$9x^2 - 6x - 35$$

- perfect square
- zero product property
- prime
- square root property

algl. cindy. mar 26
 "Turn in HW"

Quiz tomorrow 8.8-8.9
 open book, open notes

Apr 24-6:44 PM

$$x^2 - 9 = 0$$

Examples 3-4 Solve each equation.

PS $(4x^2) - 36$

$$(2x)^2 = \sqrt{36}$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

Can you write it as a perfect square?
 $x = 3$

$$4x^2 - 36 = 0$$

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

$$2x - 6 = 0 \quad 2x + 6 = 0$$

$$2x = 6 \quad 2x = -6$$

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

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10. $(z + 5)^2 = \sqrt{47}$

Is it a perfect square?

yes *nearest length*

$z + 5 = \pm \sqrt{47}$
exact

$z = -5 \pm \sqrt{47}$

$z = -5 \pm 6.9$

$z = 1.9$
 $z = -11.9$

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9. $64y^2 - 48y + 18 = 9$

$-9 -9$

$64y^2 - 48y + 9 = 0$

$(8y - 3)^2 = 0$

$8y - 3 = 0$

$8y = 3$

$y = \frac{3}{8} = 0.375$

$y = \frac{3}{8} = 0.375$

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Examples 3-4 Solve each equation.

34. $4m^2 - 24m + 36 = 0$

$(2m - 6)^2 = 0$
 $2m - 6 = 0$
 $\frac{2m}{2} = \frac{6}{2}$ $m = 3$

35. $(y - 4)^2 = 7$

$y - 4 = \pm\sqrt{7}$
 $+4 \quad +4$
 $y = 4 \pm \sqrt{7}$ exact
 $y = 4 \pm 2.6$
 $y = 1.4$

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ET

38. $x^2 + 8x + 16 = 25$

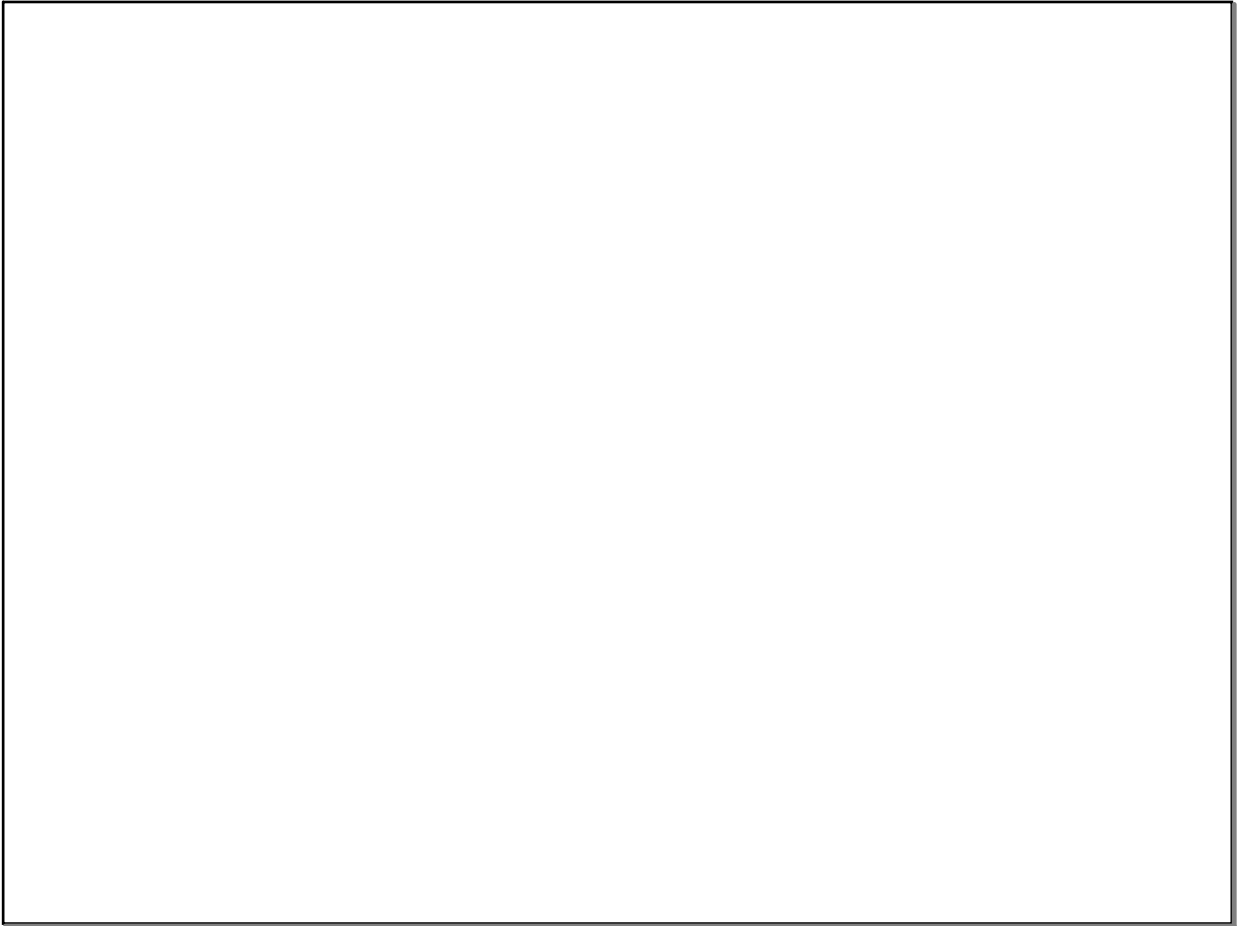
39. $5x^2 - 60x = -180$

WS 8.9 practice
 1-21 odds 330

$\sqrt{\quad} = \sqrt{\quad}$

always \pm right

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Feb 15-4:20 PM