

# NCLS Math 7 Homework

11/20/2011

Name: \_\_\_\_\_

P 508.

**QUADRATIC EQUATIONS** Solve the equation or write *no solution*. Write the solutions as integers if possible. Otherwise write them as radical expressions.

54.  $x^2 = 36$

55.  $b^2 = 64$

56.  $5x^2 = 500$

57.  $x^2 = 16$

58.  $x^2 = 0$

59.  $x^2 = -9$

60.  $3x^2 = 6$

61.  $a^2 + 3 = 12$

62.  $x^2 - 7 = 57$

**FALLING OBJECT MODEL** In Exercises 83–86, an object is dropped from a height  $s$ . How long does it take to reach the ground? Assume there is no air resistance.

83.  $s = 144$  feet

84.  $s = 256$  feet

85.  $s = 400$  feet

86.  $s = 600$  feet

P 514.

**SIMPLIFYING** Simplify the expression.

34.  $\frac{\sqrt{32}}{\sqrt{25}}$

35.  $\sqrt{\frac{27}{36}}$

36.  $\frac{\sqrt{49}}{\sqrt{4}}$

37.  $\frac{\sqrt{36}}{\sqrt{9}}$

38.  $\frac{\sqrt{9}}{\sqrt{49}}$

39.  $\frac{\sqrt{48}}{\sqrt{81}}$

40.  $\frac{\sqrt{64}}{\sqrt{16}}$

41.  $\frac{\sqrt{120}}{\sqrt{4}}$

42.  $\frac{1}{2}\sqrt{32} \cdot \sqrt{2}$

43.  $3\sqrt{63} \cdot \sqrt{4}$

44.  $\sqrt{9} \cdot 4\sqrt{25}$

45.  $-2\sqrt{27} \cdot \sqrt{3}$

46.  $\sqrt{7} \cdot \frac{\sqrt{18}}{\sqrt{2}}$

47.  $-\sqrt{4} \cdot \frac{\sqrt{81}}{\sqrt{36}}$

48.  $\frac{\sqrt{10} \cdot \sqrt{16}}{\sqrt{5}}$

49.  $\frac{-2\sqrt{20}}{\sqrt{100}}$