AAT

HW 41

p190

47. $x^2 = x+2$

$x^2 - x - 2 = 0$

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

$\boxed{x = 2, -1}$

48. $x^2 + 2x + 1 = 7x - 5$

$x^2 - 5x + 6 = 0$

$(x-2)(x-3) = 0$

$\boxed{x = 2, 3}$

49. $x^4 - 2x^2 = 2x^2$

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

$x^2(x^2 - 4) = 0$

$\boxed{x = 0, \pm 2}$

71. $(-\infty, \infty)$

72. $(-\infty, \infty)$

73. $(-\infty, 0) \cup (0, \infty)$

$t \neq 0$

74. $(-\infty, -5) \cup (-5, \infty)$

$y \neq -5$

75. $y - 10 \geq 0$

$y \geq 10$

$[10, \infty)$

93 $y = -\frac{1}{10}(30)^2 + 3(30) + 6$

$y = 6$ yes!

97. a) $C = 12.30x + 98000$

b) $R = 17.98x$

c) $P = 17.98x - (12.30x + 9800)$

$P = 5.68x - 98,000$

98. a) $C = 0.95x + 6000$