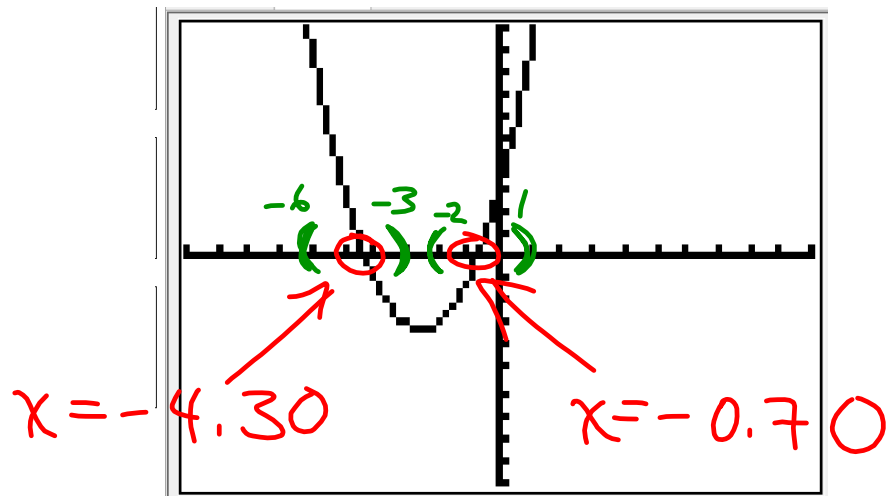


p. 245 #14

$$x^2 + 5x + 3 = 0$$



$$x = \{-4.30, -0.70\}$$

$$\#19 \quad 10x^2 + 3 = 11x$$

$$10x^2 - 11x + 3 = 0$$

$$x = .5$$

$$x = .6$$

# 22  
intersect

$$y = x^2$$

$$y = -\frac{1}{2}x^2 + \frac{3}{2}x + 3$$

$$x^2 = -\frac{1}{2}x^2 + \frac{3}{2}x + 3$$

Standard  
form

$$x^2 + \frac{1}{2}x^2 - \frac{3}{2}x - 3 = 0$$

mult  
2

$$\frac{3}{2}x^2 - \frac{3}{2}x - 3 = 0$$

$$3x^2 - 3x - 6 = 0$$

$$x = -1 \quad x = 2 \quad 3(x^2 - x - 2) = 0$$

$$y = 1 \quad y = 4$$

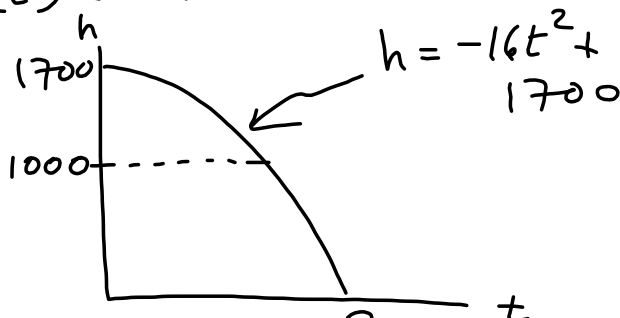
$$(-1, 1) \quad (2, 4)$$

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

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

p. 248 # 11

$$h(t) = -16t^2 + 1700$$



$$(a) \quad h = 1000 \quad t = ? \quad ? = 0.3$$

$$1000 = -16t^2 + 1700$$

$$16t^2 = 700$$

$$t^2 = \frac{700}{16}$$

$$t = \sqrt{\frac{700}{16}}$$

(c) Domain  $0 \leq t \leq 10.3$

Range  $0 \leq h \leq 1700$

$$-16t^2 + 1700 = 0$$

$$16t^2 = 1700$$

$$t^2 = \frac{1700}{16}$$

$$t = \sqrt{\frac{1700}{16}} = 10.3$$