p. 476 (1)
$$2x + y = -15$$
 $y - 5x = 6$
Solve by substitution
$$y = (5x + 6)$$

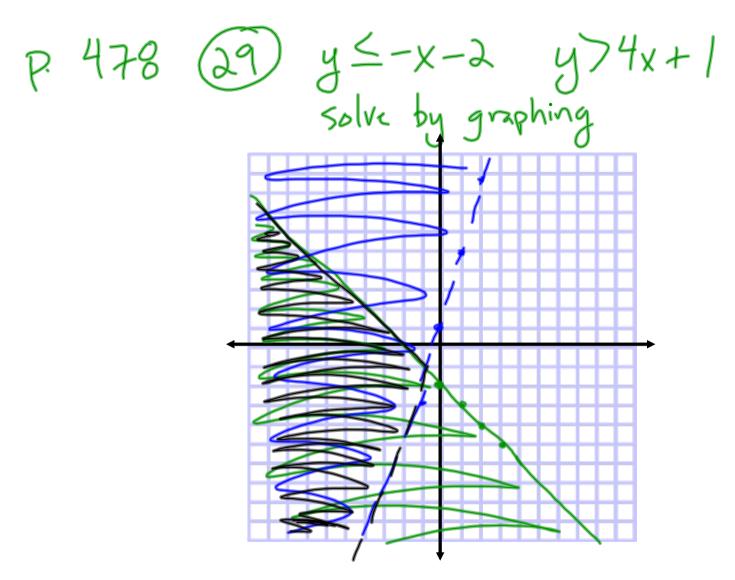
$$2x + (5x + 6) = -15$$

$$7x + 6 = -15$$

$$7x = -21$$

$$x = -3$$

P. 477 (19)
$$x + 6y = 28 (2x - 3y = -19) \times 2$$
 (use elimination)



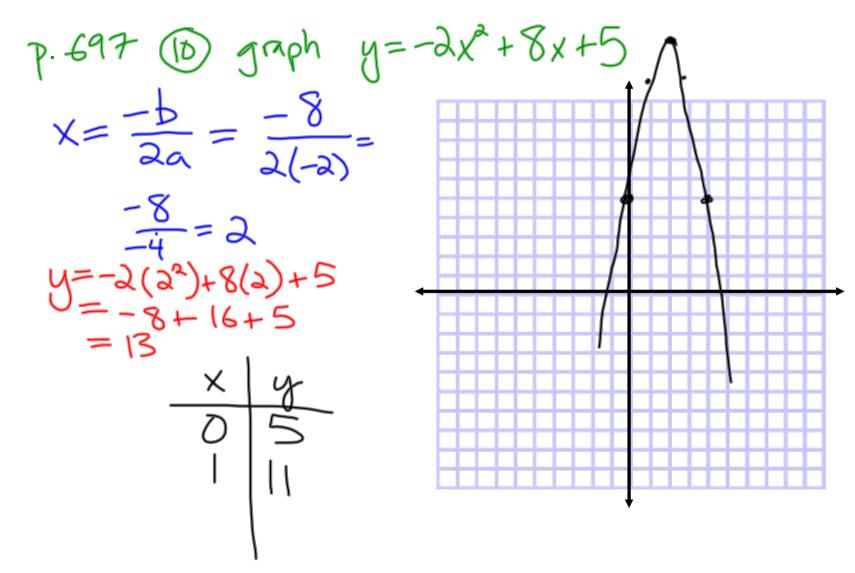
p. 618 (29)
$$3t^2 - 33t = 0$$
 solve
 $3t(t-11) = 0$
 $3t = 0$ $t-11 = 0$
 $t=0$ $t=11$

p. 619
$$\frac{47}{47}$$
 $-4r^2 = 18r + 18$ solve by factoring $-18r - 18$ $-18r - 18 = 0$ $-18r^2 + 18r + 18 = 0$ $-18r^2 + 18r^2 + 18r^2$

$$p.620$$
 (51) $z^2 - 225$ (54) $x^2 + 20x + 100$ (2+15)(2-15) (x+10)(x+10)

$$(54) x^{2} + 20x + 100$$

 $(x+10)(x+10)$



p. 699 (25)
$$2m^{2} + 7m - 3 = 0$$
 solve using fundratic formula $-b \pm 5b^{2} - 4nc$ $-2a$ $-7 + 57^{2} - 4(2)(-3)$ $-7 - 57^{2} - 4(2)(-3)$ $-2(2)$ $-7 + 549 + 24$ $-7 - 549 + 24$ $-7 - 573$ $-7 -$