Assignment 3: E.S. 26 I and 34 I, IV, V

26 I Graph the following functions:

a. $y = 5 - x^2$
b. $f(x) = 5x + 4$
c. $y = \frac{1}{3}x + 2$
d. $y = 5 - 2x \quad \text{for } -4 \leq x \leq 2$
e. $h(x) = 5$
f. $G(x) = 2x + 1 \quad \text{for } -3 \leq x \leq 4$

34 I Solve these linear equations. How many solutions does each have?

a. $6x + 7 = 31$
b. $4x + 3 = 12$
c. $8x = 33$
d. $5x + 9 = 2x$

34 IV In table form, list pairs of numbers which are solutions to the following equations. (You may guess or, if you can't guess, pick a number for one of the variables and solve for the other.)

a. $x + y = 10$
b. $2x + 3y = 12$
c. $3x - y = 1$
d. $y = 5x - 3$

34 V Graph the following linear functions

a. $f(x) = 2x + 3$
b. $q : x \to \frac{1}{3}x + 1$
c. $y = 3x - 5 \quad \text{for } -3 \leq x < 2$
d. $y = \frac{1}{2}x - 1$
e. $H(x) = [x - 3]^2$
f. $7y - 3y = 9.$