Assignment 6: E.S. 35 IV(c–d), VI; 36 I, IV(a-d)

In class, I assigned all of 36 IV by mistake. The rest of 36 IV was supposed to be on the next assignment.

35 IV Solve these linear equations for y:

c. $5x + 3y = 7$ d. $\frac{2}{3}x - \frac{5}{2}y = -\frac{7}{5}$

35 VI Remove parentheses, using the distributive law.

a. $5(3\alpha + 4\beta - \mu)$ b. $-7(-x - y)$
c. $3xy(x - 1)$ d. $6(2p + 2q)$

36 I Construct a true or a false open sentence (as requested) for the value or values of the given variables. Please include all given variables in the sentence.

a. A sentence which is true if $\alpha = 3$
b. A sentence which is false if $x = -2$
c. A sentence which is true if $\alpha = 2$ and $\beta = -3$
d. A sentence which is false if $w = -4$, $v = 7$, and $u = -3$.

36 IV Solve graphically the following systems of linear equations. Try to check your solutions in the given equations.

a. $\begin{cases} x + 2y = 3 \\ -x + y = 6 \end{cases}$ b. $\begin{cases} x = -2 \\ y = 4 \end{cases}$

c. $\begin{cases} x = 2 \\ x + 3y = 4 \end{cases}$ d. $\begin{cases} y = -3 \\ x + 3y = 4 \end{cases}$

e. $\begin{cases} x - 2y = 3 \\ 2y - x = 1 \end{cases}$ f. $\begin{cases} x + y = 3 \\ 2x + 2y = 6 \end{cases}$