CW 6.1-6.3 Writing Linear Equations

Do each problem in the order that the letter part is given. **Box your final answers.**

1. Given: $m = -\frac{3}{5}$ that goes through $(0, 6)$
   a. Write a linear equation with the above conditions in slope-intercept form.
   b. Transform it to standard form.

2. Given: $m = \frac{3}{2}$ that goes through $(-8, -4)$
   a. Write a linear equation with the above conditions in slope-intercept form.
   b. Provide a very neat, labeled graph.

3. Given: $m = \frac{7}{3}$ that goes through $(-3, -2)$.
   a. Write a linear equation with the above conditions in point-slope form.
   b. Transform it to standard form.
   c. Transform it to slope-intercept form.

4. Given: line that goes through $(3, -1)$ and $(-7, 4)$.
   a. Write a linear equation with the above conditions in slope-intercept form.
   b. Transform it to standard form.
   c. Provide a very neat, labeled graph.

5. a. Write the equation of the line with a slope of 0 that goes through the point (3, 5).
   b. Graph it.

6. a. Write the equation of the line that has undefined slope that goes through (-5, 11).
   b. Graph it.

Bonus:

Given: line that goes through $(-6, 1)$ and $(3, 4)$.
   a. Write a linear equation with the above conditions in point-slope form.
   b. Transform it to standard form.