

Worksheet on Linear Equations

Do each problem in the order that the letter part is given. **Box your final answers. Graphs should be done on Graph paper.**

1. Given: $m = -\frac{3}{5}$ that goes through $(0, 6)$

- Write a linear equation with the above conditions in slope-intercept form.
- Transform it to standard form.
- Provide a very neat, labeled graph.

2. Given: $m = \frac{3}{2}$ that goes through $(-8, -4)$

- Write a linear equation with the above conditions in slope-intercept form.
- Transform it to standard form.
- Provide a very neat, labeled graph.

3. Given: $m = \frac{7}{3}$ that goes through $(-3, -2)$.

- Write a linear equation with the above conditions in point-slope form.
- Transform it to standard form.
- Transform it to slope-intercept form.

4. Given: line that goes through $(3, -1)$ and $(-7, 4)$.

- Write a linear equation with the above conditions in slope-intercept form.
- Transform it to standard form.
- Provide a very neat, labeled graph.

5. Given: line that goes through $(-6, 1)$ and $(3, 4)$.

- Write a linear equation with the above conditions in point-slope form.
- Transform it to standard form.
- Transform to slope-intercept form.

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

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