

Writing Linear Equations

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

1. Given: $m = \frac{1}{3}$ 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.

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

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

3. Given: line that goes through $(2, 1)$ 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.

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

b. Graph it.

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

b. Graph it.