QUIZ 1 - MATH 151 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the inequality $|4x - 5| \leq 3$ and write your solution in interval notation.

2. Suppose we start from the graph of y = f(x). Write above each arrow the transformation that is performed at each step:

$$y = f(x) \longrightarrow \qquad y = f(x+3)$$

 $\longrightarrow \qquad y = -f(x+3)$

$$\rightarrow$$
 $y = -f(x+3) - 1$

At the end of the this chain of transformations, where has the point (1, -2) been carried if it is a point on the graph of y = f(x)?