

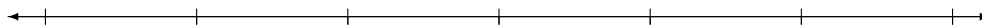
# MATH 135: Quiz 1

September 9, 2014

Name: \_\_\_\_\_ Sec: \_\_\_\_\_

1. Solve the following absolute value inequality and graph the result on the number line below.

$$|3x - 4| \leq 20$$



2. Given the two functions  $f$  and  $g$  below, find both the composites  $f \circ g$  and  $g \circ f$ . Make sure they are labeled carefully.

$$f(x) = \tan(x + 1) \quad g(x) = x^2 + 3$$

**3.**

- (a) Find the equation of the line that passes through the points  $(1, 4)$  and  $(-1, 0)$ .
- (b) Find the equation of the line perpendicular to the one in (a) that also passes through  $(-1, 0)$ .