Algebra I Class Work 5.6

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: You may use your book, notes, calculator, friends, and teacher. However you may not copy someone else work verbatim. **Show all your work.** If you are not finished at the end of class, write “NEED MORE TIME” at the top and turn your paper in – **you may not take it home.** You have one week to finish it.

State whether each of the following represents a direct variation, an inverse variation, or neither.

1. *r =* 20*t*
2. $r=\frac{20}{t}$
3. $r=\frac{t}{20}$
4. *rt* = 20

For each variation, find the constant of variation and write the function rule.

1. *y* varies directly with *x* and *y* and *y* = 18 and *x* = 6.
2. *y* varies inversely with *x* and *y* and *y* = 12 and *x* = 2.