Name:

Date:

Algebra I

Directions: Solve each variation problem making sure to show all work.

1. x varies directly with y. If x = 3, and y = 6 find y, when x = 8.

2. x varies directly with y. If x = 5, and y = 6 find y, when x = 35.

3. x varies directly with y. If x = 1.2, and y = 8.4 find x, when y = 7.

4. x varies directly with y. If x = 0.5, and y = 4 find x, when y = 12.

5. x^2 varies directly with y. If x = 4, and y = 5 find y, when x = 16.

6. x varies inversely with y. If x = 2, and y = 6 find y, when x = 4.

7. x varies inversely with y. If x = 6, and y = 9 find y, when x = 27.

8. x varies inversely with y. If x = 18, and y = 4 find x, when y = 12.

9. x varies inversely with y. If x = 0.6, and y = 0.8 find x, when y = 2.4.

10. x^2 varies inversely with y. If x = 2, and y = 25 find x, when y = 1.