

Name _____

Date _____

Determining and Predicting the Rate of Change - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

- _____ 1. Find the slope of the points (-12, 8) and (3,-9). a. $\frac{-3}{2}$
- _____ 2. Jacob makes 2 cakes. He then makes an additional 2 cakes in 4 hours. Represent this situation with an equation. b. Negative
- _____ 3. Let $y = y^3 - 5$. Find the average rate of change of y with respect to x over the interval [4, 8]. c. $2 + (1/2)x$
- _____ 4. Find the slope of the points (5, 5) and (7, 2). d. $\frac{-17}{15}$
- _____ 5. Find the slope of the points (-1, 7) and (8, -14). e. $\frac{-21}{9}$
- _____ 6. Mike is a wrestler and needs to make weight for his match. He wants to wrestle in the 35 kg weight class. He is currently 55 kg. It takes him just 5 weeks to make weight. If you were to graph this situation, how would you describe the slope of the line? f. 112
- _____ 7. Let $y = y^4 - 2$. Find the average rate of change of y with respect to x over the interval [2, 6]. g. 1280

