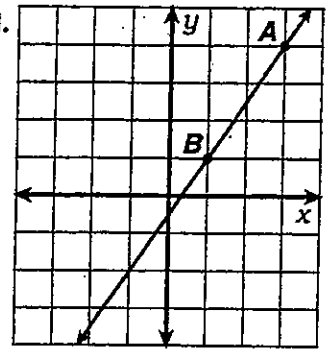
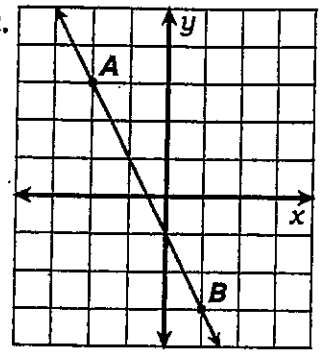
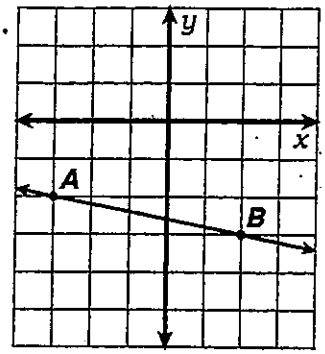
NAME _____ PER ____

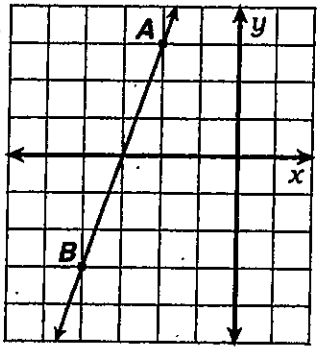
Cross out the letter pair next to each correct answer. For each letter pair that you DON'T cross out, write the upper case letter in the box containing the lower case letter.

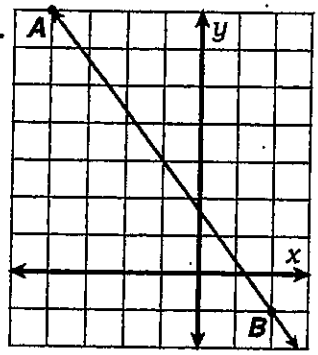
In Exercises 1-6, find the slope of $\overleftrightarrow{AB}$.

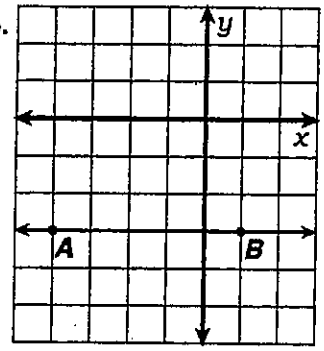
1. 

2. 

3. 

4. 

5. 

6. 

answers 1-6

- i • O $-\frac{4}{3}$
- e • U $-\frac{2}{3}$
- g • R $\frac{3}{2}$
- a • T 3
- b • A $-\frac{3}{5}$
- j • V -2
- d • L 0
- l • E $\frac{7}{2}$
- h • N $-\frac{1}{5}$

In Exercises 7-18, find the slope of the line that passes through the two given points.

SHOW YOUR FORMULA WORK

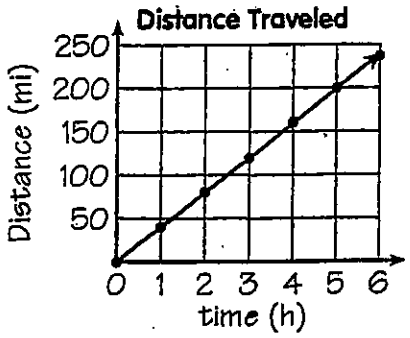
7. (5,1); (8,3)
8. (6,3); (1,4)
9. (2,−2); (5,7)
10. (1,−6); (9,−8)
11. (−3,7); (−10,0)
12. (−9,4); (−6,−4)

answers 7-12

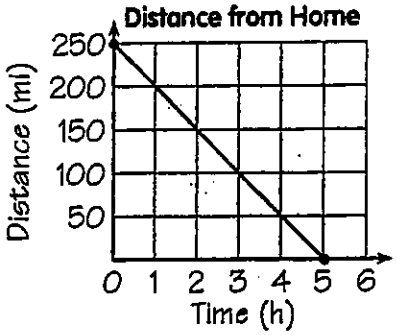
- f • P 1
- k • U $-\frac{7}{4}$
- a • S $-\frac{1}{5}$
- c • N 3
- d • B $-\frac{8}{3}$
- g • A 2
- i • G $\frac{2}{5}$
- h • N $\frac{2}{3}$
- m • E $-\frac{1}{4}$

What Does It Take to Win a Tug of War?

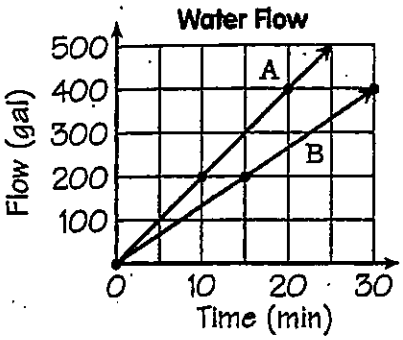
Find the rate of change represented by each line (some answers are rounded). Cross out the letters above each correct answer. Write the remaining letters in the spaces at the bottom of the page.



rate of change: _____

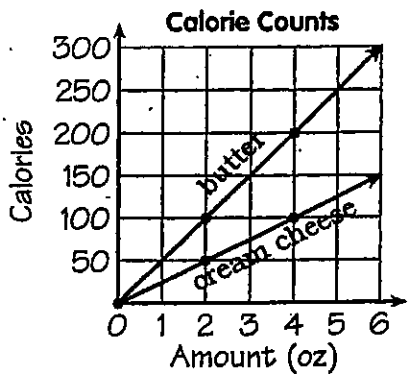


rate of change: _____



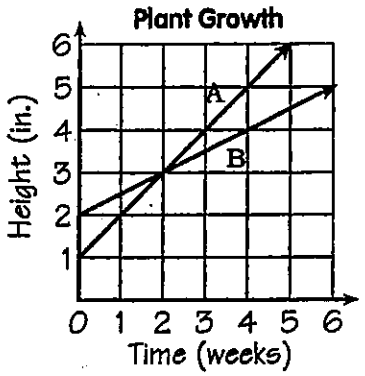
flow rate (A): _____

flow rate (B): _____



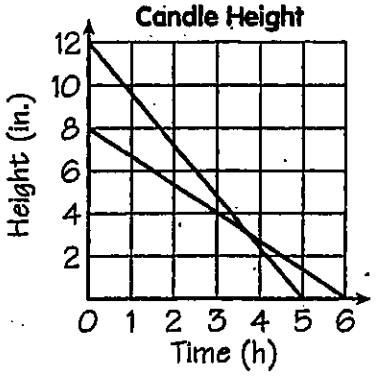
butter: _____

cream cheese: _____



plant A: _____

plant B: _____



12" candle: _____

8" candle: _____

Use the formula $\frac{y_2 - y_1}{x_2 - x_1}$ to calculate the unit rate of change for the data in each table. The rate of change is constant for the data in each table.

5.

Number of Photos Printed	Total Cost of Photos (in Dollars)
10	2
20	4
30	6
40	8

6.

x	y
3	27
5	45
7	63
9	81