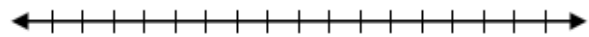


Alg 1 Week 10 Block Warm-Up

Skill 3: Solve and Graph Compound Inequalities on a Number Line

$$-3(5x - 6) + 12 > -4 - (2x + 5)$$



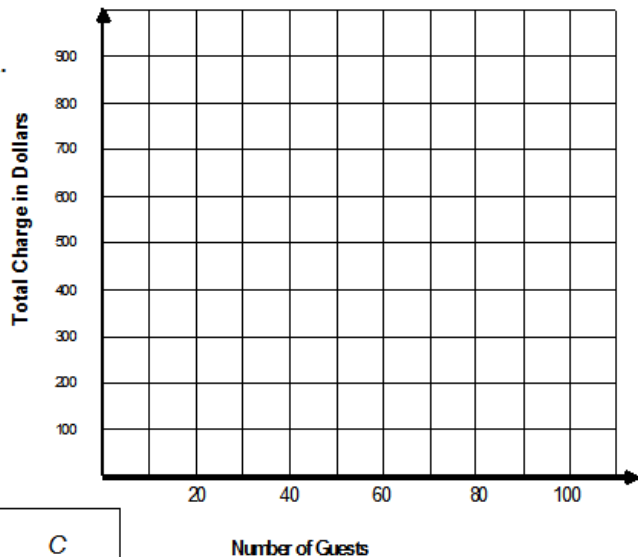
Skill 4: Solve and Graph Absolute Value Inequalities and Equations

$$|-2x + 2| > 10$$

Skill 5: Evaluate and Graph a Function

A catering company charges \$8.00 per guest and a flat rate of \$100.00 to cater a luncheon. The function that represents this situation is $C(g) = 8g + 100$, where C represents the total charge in dollars and g represents the number of guests.

Use the function to graph the total charge over the number of people for up to 100 people.



g	$C(g) = 8g + 100$	C
0		
20		
50		
80		
100		

****Use your graph to estimate the number of guests if the total charge is \$600**

5-1 Rate of Change and Slope

Problem 3 Finding Slope Using Points

What is the slope of the line through $(-1, 0)$ and $(3, -2)$?

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Got It?

What is the slope of the line through each of these pairs of points?

- $(1, 3)$ and $(4, -1)$
- $(-3, 2)$ and $(1, 5)$

Problem 1 Finding Rate of Change Using a Table

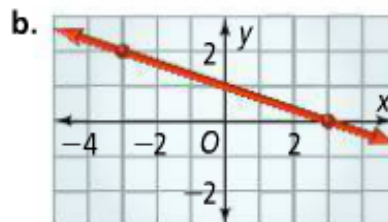
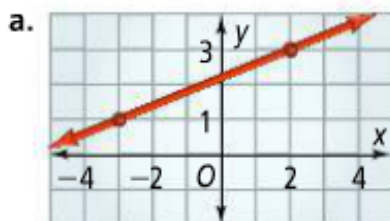
Marching Band The table shows the distance a band marches over time. Is the rate of change in distance with respect to time constant? What does the rate of change represent?

Distance Marched

Time (min)	Distance (ft)
1	260
2	520
3	780
4	1040

Problem 2 Finding Slope Using a Graph

2. What is the slope of each line in parts (a) and (b)?



Assessments

PT: week 10

Skill Test 3.3,4.3,5.1 & 2.6 if needed

Quiz Ch 3/4 #2

HW: p 298: 9-21 odd

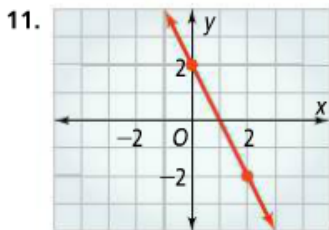
Determine whether each rate of change is constant. If it is, find the rate of change and explain what it represents.

◀ See Problem 1.

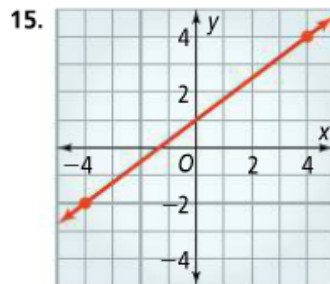
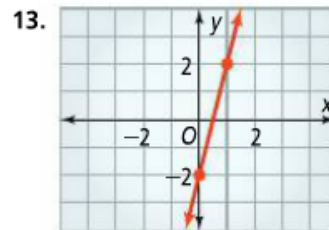
9. Hot Dogs and Buns

Hot Dogs	Buns
1	1
2	2
3	3
4	4

Find the slope of each line.



◀ See Problem 2.



Find the slope of the line that passes through each pair of points.

◀ See Problem 3.

17. $(0, 0), (3, 3)$

19. $(4, 4), (5, 3)$

21. $(-6, 1), (4, 8)$