

Prerequisite Skills

Real Numbers

- Add.
 - $6.2 + 4.9$
 - $3.8 + (-6.5)$
 - $-5.7 + (-3.3)$
 - $-12.5 + (-7.7)$
- Subtract.
 - $9.5 - 7.8$
 - $-6.9 - 3.8$
 - $-13 - (-6.5)$
 - $19.3 - (-5.8)$
- Multiply.
 - $(3.8)(2.5)$
 - $(6.9)(-3)$
 - $(-8)(12)$
 - $(-9.1)(-3.5)$

Algebraic Expressions

- Simplify.
 - $-9x - (-6x)$
 - $3x^2 - (-5) + 6x - 9x^2$
 - $13x^2 - (3x^2 + 2x) - (-6)$
 - $-6x^2 + 5x - (6x^2 - 5x + 6)$
- Find the value of y when $x = 0$.
 - $y = 6x^2 + 5$
 - $y = -3x^2$
 - $y = 3(x - 2)^2$
 - $y = -5(x + 1)^2 + 3$
- Find the value of y when $x = 2$.
 - $y = -5x^2$
 - $y = -3(x + 1)^2 + 1$
 - $y = 4x^2 - 6$
 - $y = 3(x - 7)^2 + 5$
- Find the value of y when $x = -2$.
 - $y = 3x^2$
 - $y = -2x^2 - 5$
 - $y = -4(x - 2)^2 + 1$
 - $y = 3(x + 4)^2 - 15$

Linear Relations

- Complete each table.

a)

x	$y = -4x - 6$
-2	
-1	
0	
1	
2	

b)

x	$y = -\frac{1}{3}x + 10$
-6	
-3	
0	
3	
6	

- Refer to question 8,
 - Graph each relation.
 - Identify the slope and the y -intercept for each relation.
- Complete each table.

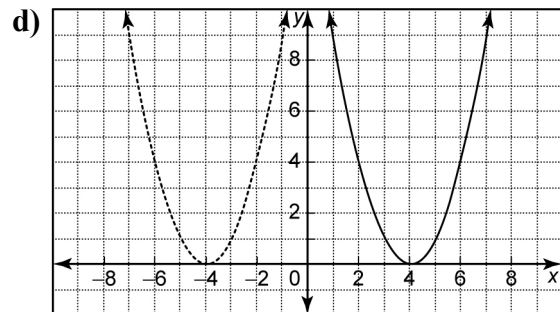
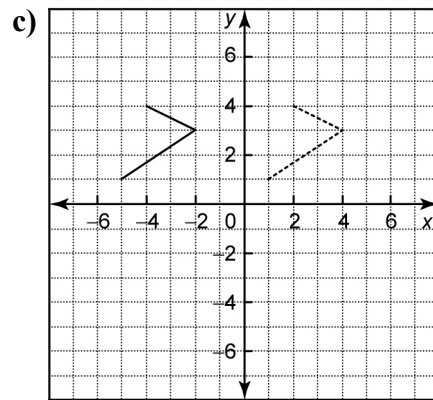
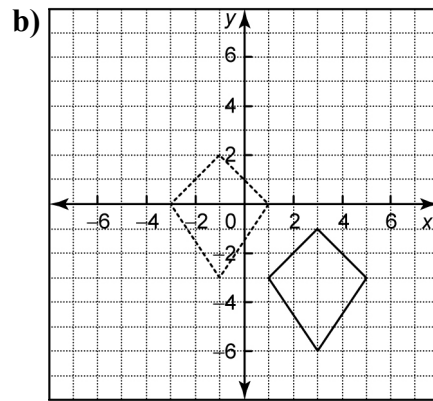
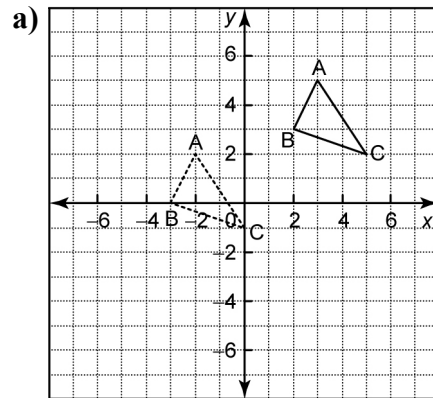
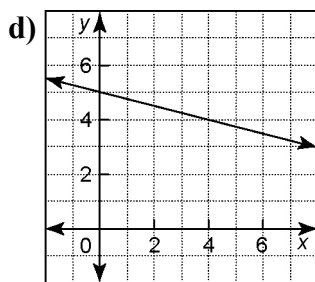
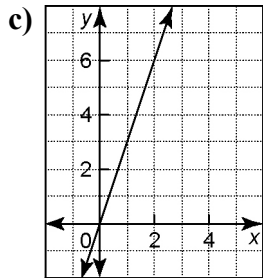
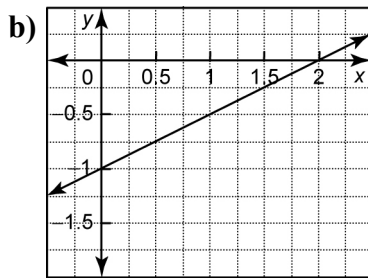
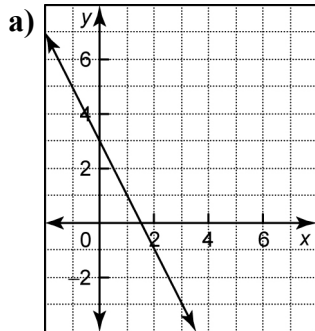
x	y	First Differences
0	3	
2	7	
4	11	
6	15	
8	19	

x	y	First Differences
0	0	
1	1	
2	8	
3	27	
4	64	

Name: _____

Date: _____

11. Identify the slope and the y -intercept of each line.



Transformations

12. Describe the transformation that would move each solid figure onto its dotted image.