NAME_

DATE_____

PER.

TRANSFORMATIONS OF QUADRATIC FUNCTIONS – Day 2

Fill in the table below.

Equation	Description of the change in $y = x^2$	
1. $y = x^2 - 7$		
2.	Shift up 2 units	
3. $y = (x - 3)^2 + 3$		
4.	Stretch by a factor 3, shift up 1 unit	
5. $y = -\frac{1}{4}x^2$		
6.	Reflect across the x-axis, shift down 4 units	
7. $y = -(x + 7)^2$		
8.	Compress by a factor 1/2, shift left 5 units, and down 13 units	

Write the equation, domain, and range for each graph.

9. Eqn:	10. Eqn:	11. Eqn:
D:	D:	D:
R:	R:	R:
		-8 -6 -4 $-2-8$ -6 -4 $-2-2-4-4-6$



Write the equation, vertex, and axis of symmetry (AOS) for each graph.

REVIEW. Show ALL work.

17. Mary has \$220 in her purse. If she buys 4 items that each cost <i>d</i> dollars, which expression represents the amount of money remaining in Mary's purse?				
A. 4 <i>d</i> B. 220 – 4 <i>d</i>	C. 220 + 4 <i>d</i> D.	220(4 <i>d</i>)		
18. The length of a rectangle i the rectangle?	s x + 5, and its width is x	– 2. Which expression represents the area of		
A. 4x + 6 C.	$x^2 - 3x - 10$			
B. $x^2 + 3x - 10$ D.	x ² – 10			
19. Write the equation of the li	ne that passes through t	ne point (2, -5) and has a slope of -3.		
20. Write the equation of the li	ne that is parallel to y =	$\frac{1}{3}$ x – 4 and goes through the point (-3, 1).		