

CHAPTER **At-Home Practice**
7 **Functions**

Identify the quadrant of each point in the diagram.

1. *K*

2. *L*

3. *M*

4. *N*

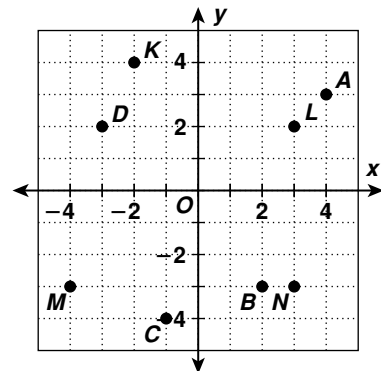
Give the coordinates of each point.

5. *A*

6. *B*

7. *C*

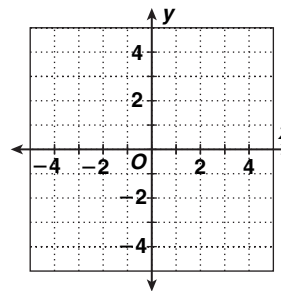
8. *D*



Complete the table for each function, and use it to graph the function.

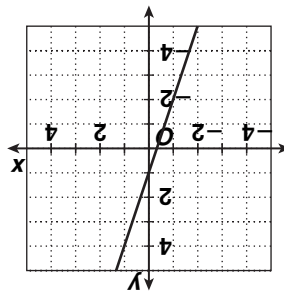
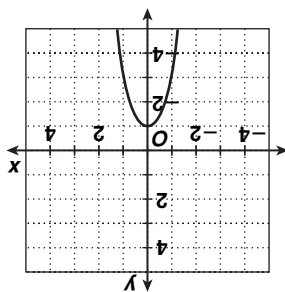
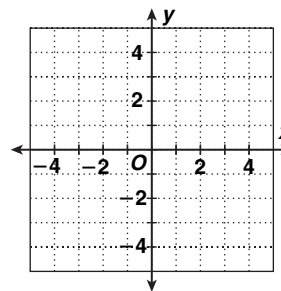
9. $y = 3x + 1$

Input	Equation	Output	Point
x	$y = 3x + 1$	y	(x, y)
-2			
-1			
0			
1			
2			



10. $y = -2x^2 - 1$

Input	Equation	Output	Point
x	$y = -2x^2 - 1$	y	(x, y)
-2			
-1			
0			
1			
2			



Answers: 1. II 2. I 3. III 4. IV 5. (4, 3) 6. (2, -3) 7. (-1, -4) 8. (-3, 2) 9-10 Tables: 9. (-2, -5) (-1, -2) (0, 1) (1, 4) (2, 7) 10. (-2, -9) (-1, -3) (0, -1) (1, -3) (2, -9) 9-10 Graphs: 9.

CHAPTER 7 Family Fun Plotting Points

Directions

Solve each problem. Match the answer to an ordered pair and plot the point. Connect the ten points with straight lines to find the mystery shape.
(Hint: If you plot all of the ordered pairs, you will not get the correct answer.)

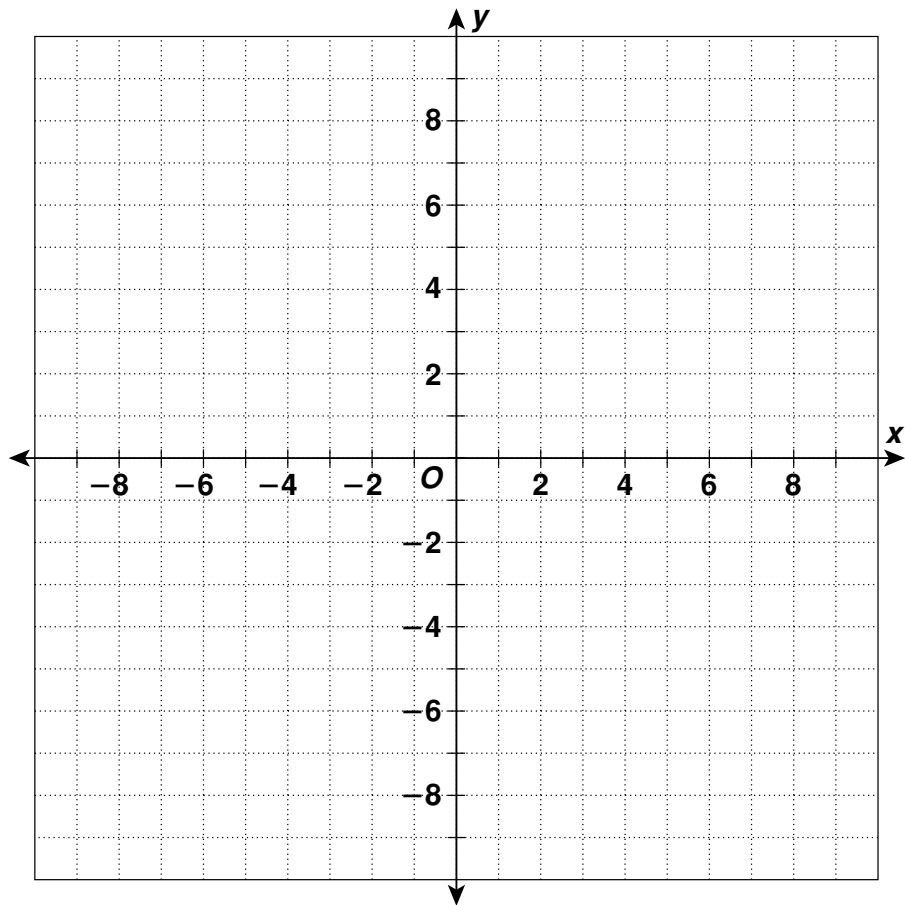
$$-40 \cdot 6 = \underline{\hspace{2cm}} \quad -18 + (-4) = \underline{\hspace{2cm}} \quad 8 \cdot (-8) = \underline{\hspace{2cm}} \quad (-8)^2 = \underline{\hspace{2cm}}$$

$$72 \div (-9) = \underline{\hspace{2cm}} \quad 35 - (-6) = \underline{\hspace{2cm}} \quad -3 \cdot -4 \cdot 2 = \underline{\hspace{2cm}}$$

$$300 \div (-10) = \underline{\hspace{2cm}} \quad -12 + (-38) = \underline{\hspace{2cm}}$$

$$-48 \div -6 = \underline{\hspace{2cm}}$$

Ordered Pairs	Answer
$(-8, 5)$	-41
$(0, 0)$	-240
$(2, 5)$	25
$(-3, 0)$	24
$(-6, 3)$	-22
$(-3, -3)$	64
$(3, 0)$	41
$(3, -3)$	-30
$(6, 3)$	-50
$(3, 3)$	-8
$(-3, 3)$	-64
$(-2, 1)$	-24
$(0, 6)$	8



Answers: -240 , -22 , -64 , 64 , -8 , 41 , 24 , -30 , -50 , 8 . The mystery shape is a star.