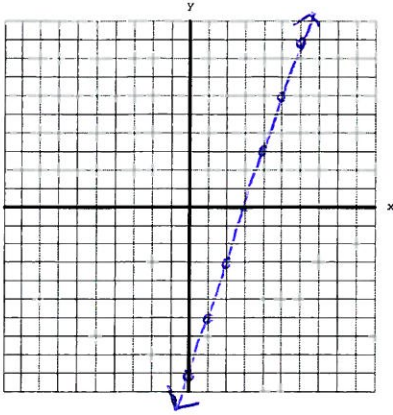


Graph each equation.

Name: Key Period: _____

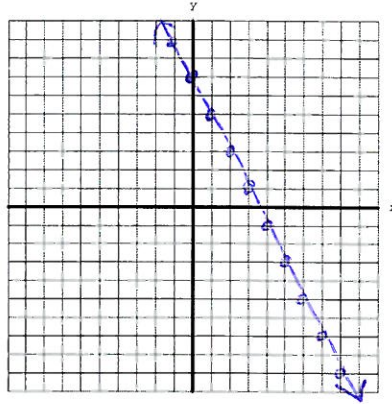
1. $-3x + y = -9$

$$y = 3x - 9$$



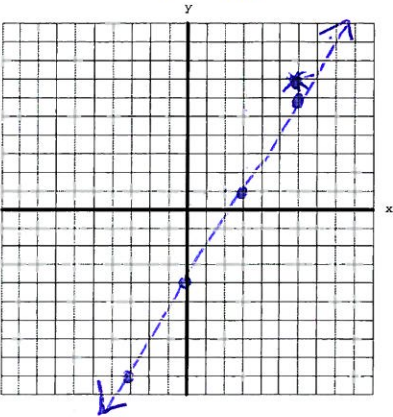
2. $-6x - 3y = -21$

$$\begin{aligned} -3y &= +6x - 21 \\ y &= -2x + 7 \end{aligned}$$



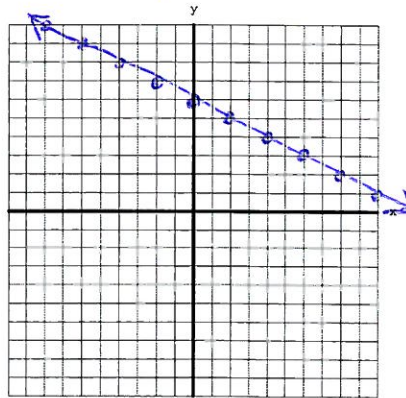
3. $-5x + 3y = -12$

$$\begin{aligned} 3y &= 5x - 12 \\ y &= \frac{5}{3}x - 4 \end{aligned}$$



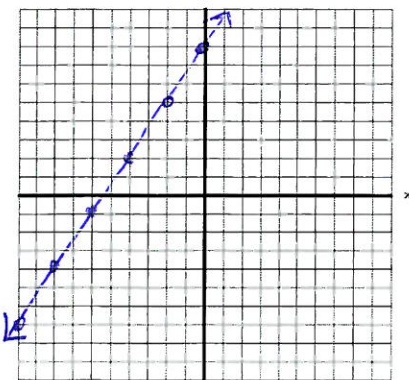
4. $3x + 6y = 36$

$$\begin{aligned} 6y &= -3x + 36 \\ y &= -\frac{1}{2}x + 6 \end{aligned}$$



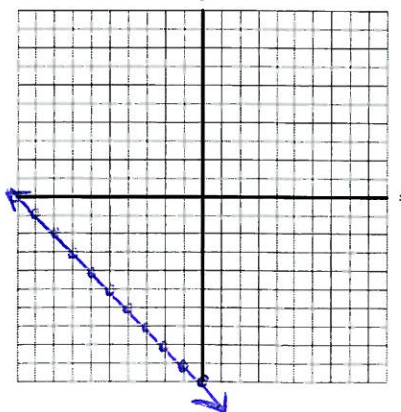
5. $-3x + 2y = 16$

$$\begin{aligned} 2y &= 3x + 16 \\ y &= \frac{3}{2}x + 8 \end{aligned}$$



6. $4x + 4y = -40$

$$\begin{aligned} 4y &= -4x - 40 \\ y &= -x - 10 \end{aligned}$$



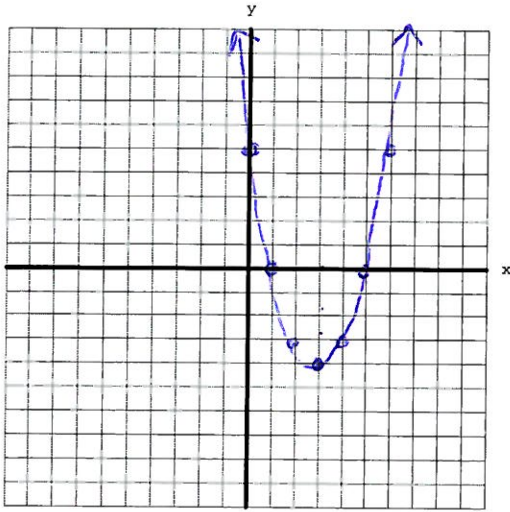
Graph each quadratic function by finding the vertex then using a table of values.

1. $y = x^2 - 6x + 5$

$$x = \frac{6}{2(1)} = 3 \quad y = (3)^2 - 6(3) + 5$$

$$y = 9 - 18 + 5$$

$$y = -4$$



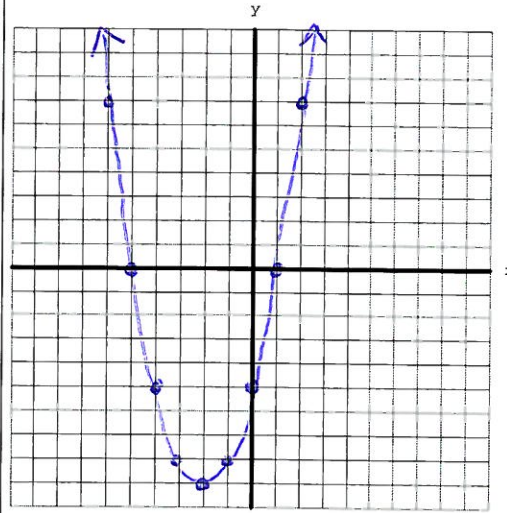
x	y
0	5
1	0
2	-3
3	-4
4	-3
5	0
6	5

2. $y = x^2 + 4x - 5$

$$x = \frac{-4}{2(1)} = -2 \quad y = (-2)^2 + 4(-2) - 5$$

$$y = 4 - 8 - 5$$

$$y = -9$$



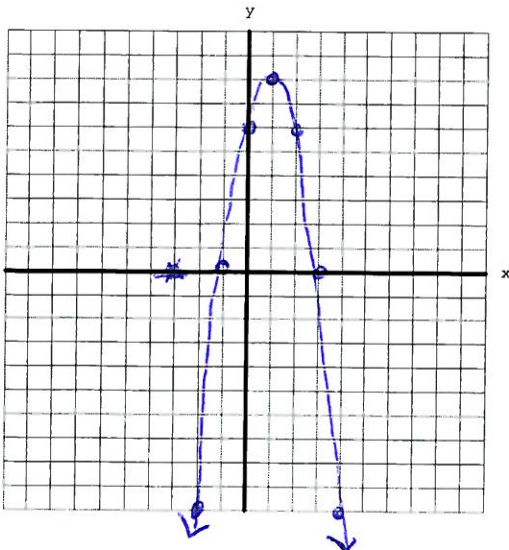
x	y
-5	0
-4	-5
-3	-8
-2	-9
-1	-8
0	-5
1	0
2	7

3. $y = -2x^2 + 4x + 6$

$$x = \frac{-4}{2(-2)} = 1 \quad y = -2(1)^2 + 4(1) + 6$$

$$y = -2 + 4 + 6$$

$$y = 8$$



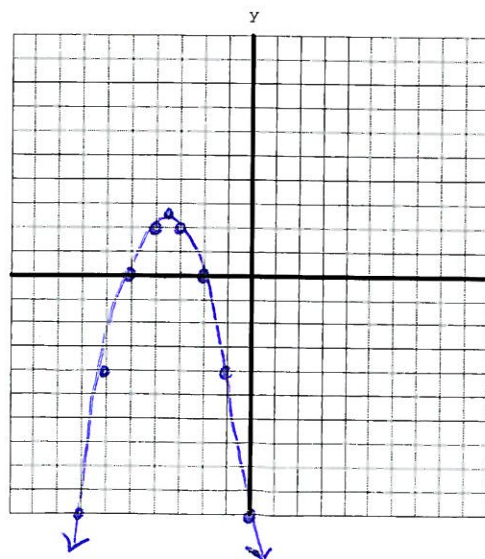
x	y
-2	-10
-1	0
0	6
1	8
2	6
3	0
4	-10

4. $y = -x^2 - 7x - 10$

$$x = \frac{-7}{2(-1)} = -3.5 \quad y = -(-3.5)^2 - 7(-3.5) - 10$$

$$y = -12.25 + 24.5 - 10$$

$$y = 2.25$$



x	y
-7	-10
-6	-4
-5	0
-4	2
-3.5	2.25
-3	2
-2	0
-1	-4
0	-10