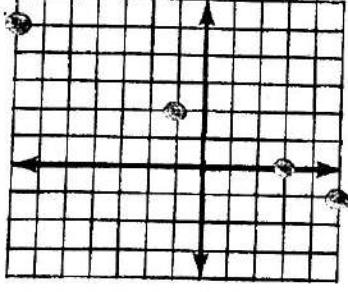


FROM LINEAR TO QUADRATIC

Complete each table and graph the function.

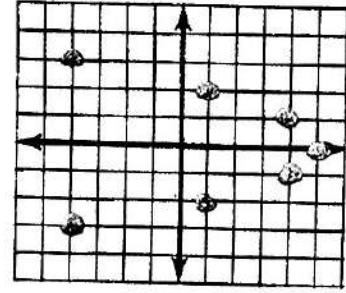
$$\textcircled{1} \quad y = 2x - 3$$

x	y
5	7
2	1
0	-3
-1	-5



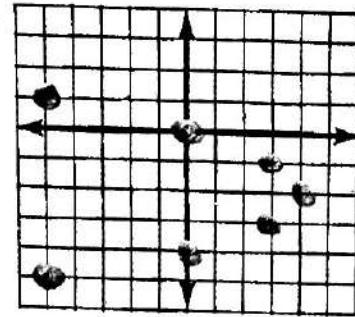
$$\textcircled{2} \quad y = x^2 - 5$$

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



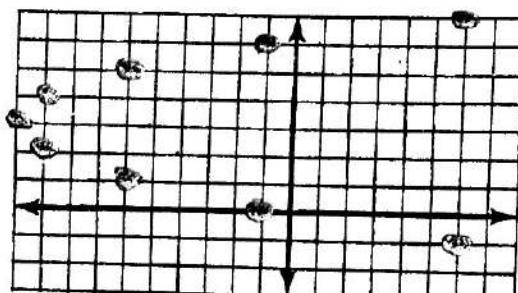
$$\textcircled{3} \quad y = x^2 + 4x$$

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



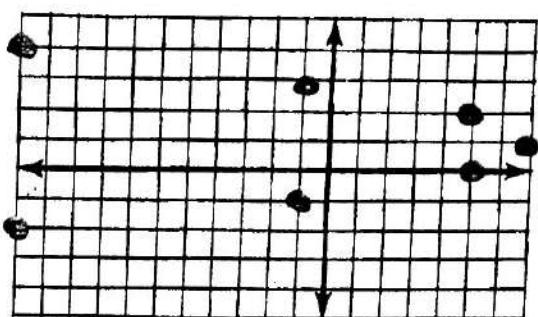
$$\textcircled{4} \quad y = x^2 + 2x - 7$$

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



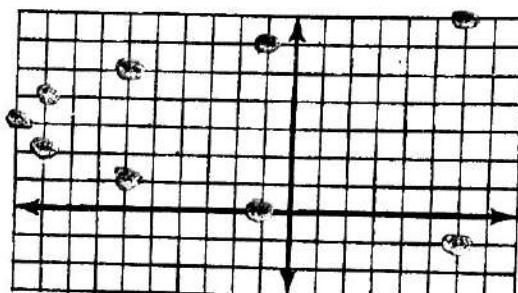
$$\textcircled{5} \quad y = -x^2 + 6x + 1$$

x	y
7	-10
6	-1
5	10
4	9
3	10
2	9
1	0
0	-1
-1	0



$$\textcircled{6} \quad y = 2x^2 - 4x - 5$$

x	y
4	11
3	1
2	-5
1	-7
0	-5
-1	1
-2	11



$$\textcircled{1} \quad y = 2x - 3$$

$$\begin{array}{cccc} 2(5)-3 & 2(2)-3 & 2(0)-3 & 2(-1)-3 \\ 10-3 & 4-3 & 0-3 & -2-3 \\ 7 & 1 & -3 & -5 \end{array}$$


$$\textcircled{2} \quad y = x^2 - 5$$

$$\begin{array}{cccc} (3)^2 - 5 & (2)^2 - 5 & (1)^2 - 5 & (0)^2 - 5 \\ 9-5 & 4-5 & 1-5 & 0-5 \\ 4 & -1 & -4 & -5 \end{array}$$

$$\begin{array}{ccc} (-1)^2 - 5 & (-2)^2 - 5 & (-3)^2 - 5 \\ 1-5 & 4-5 & 9-5 \\ -4 & -1 & 4 \end{array}$$


$$\textcircled{3} \quad y = x^2 + 4x$$

$$\begin{array}{ccc} (1)^2 + 4(1) & (0)^2 + 4(0) & (-1)^2 + 4(-1) \\ 1+4 & 0+0 & 1+(-4) \\ 5 & 0 & -3 \end{array}$$

$$\begin{array}{ccc} (-2)^2 + 4(-2) & (-3)^2 + 4(-3) & (-4)^2 + 4(-4) \\ 4-8 & 9-12 & 16-16 \\ -4 & -3 & 0 \end{array}$$

$$\begin{array}{c} (-5)^2 + 4(-5) \\ 25-20 \\ 5 \end{array}$$

$$\textcircled{4} \quad y = x^2 + 2x - 7$$

$$\begin{array}{r} (-5)^2 + 2(-5) - 7 \\ 25 - 10 - 7 \\ 8 \end{array} \quad \begin{array}{r} (-4)^2 + 2(-4) - 7 \\ -16 - 8 - 7 \\ 1 \end{array} \quad \begin{array}{r} (-3)^2 + 2(-3) - 7 \\ 9 - 6 - 7 \\ -4 \end{array}$$

$$\begin{array}{r} (-2)^2 + 2(-2) - 7 \\ 4 - 4 - 7 \\ -7 \end{array} \quad \begin{array}{r} (-1)^2 + 2(-1) - 7 \\ 1 - 2 - 7 \\ -8 \end{array} \quad \begin{array}{r} (0)^2 + 2(0) - 7 \\ 0 + 0 - 7 \\ -7 \end{array}$$

$$\begin{array}{r} (1)^2 + 2(1) - 7 \\ 1 + 2 - 7 \\ -4 \end{array} \quad \begin{array}{r} (2)^2 + 2(2) - 7 \\ 4 + 4 - 7 \\ 1 \end{array} \quad \begin{array}{r} (3)^2 + 2(3) - 7 \\ 9 + 6 - 7 \\ 8 \end{array}$$

$$\textcircled{5} \quad y = -x^2 + 6x + 1$$

$$\begin{array}{r} -(7)^2 + 6(7) + 1 \\ -49 + 42 + 1 \\ -6 \end{array} \quad \begin{array}{r} -(6)^2 + 6(6) + 1 \\ -36 + 36 + 1 \\ 1 \end{array}$$

$$\begin{array}{r} -(5)^2 + 6(5) + 1 \\ -25 + 30 + 1 \\ 6 \end{array} \quad \begin{array}{r} -(4)^2 + 6(4) + 1 \\ -16 + 24 + 1 \\ 9 \end{array}$$

$$\begin{array}{r} -(3)^2 + 6(3) + 1 \\ -9 + 18 + 1 \\ 10 \end{array} \quad \begin{array}{r} -(2)^2 + 6(2) + 1 \\ -4 + 12 + 1 \\ 9 \end{array}$$

$$\begin{array}{r} -(1)^2 + 6(1) + 1 \\ -1 + 6 + 1 \\ 6 \end{array} \quad \begin{array}{r} -(0)^2 + 6(0) + 1 \\ 0 + 0 + 1 \\ 1 \end{array} \quad \begin{array}{r} -(-1)^2 + 6(-1) + 1 \\ -1 - 6 + 1 \\ -6 \end{array}$$

$$\textcircled{6} \quad y = 2x^2 - 4x - 5$$

$$\begin{array}{r} 2(4)^2 - 4(4) - 5 \\ 2(16) \\ 32 - 16 - 5 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 2(3)^2 - 4(3) - 5 \\ 2(9) \\ 18 - 12 - 5 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 2(2)^2 - 4(2) - 5 \\ 2(4) \\ 8 - 8 - 5 \\ \hline -5 \end{array}$$

$$\begin{array}{r} 2(1)^2 - 4(1) - 5 \\ 2(1) \\ 2 - 4 - 5 \\ \hline -7 \end{array}$$

$$\begin{array}{r} 2(0)^2 - 4(0) - 5 \\ 2(0) \\ 0 - 0 - 5 \\ \hline -5 \end{array}$$

$$\begin{array}{r} 2(-1)^2 - 4(-1) - 5 \\ 2(1) \\ 2 + 4 - 5 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 2(-2)^2 - 4(-2) - 5 \\ 2(4) \\ 8 + 8 - 5 \\ \hline 11 \end{array}$$