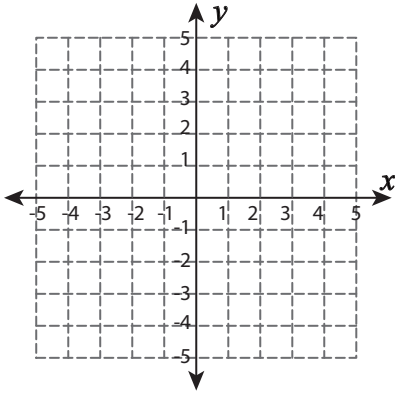


**Graphing Linear Function**

Compute the function table. Draw the graph of each function.

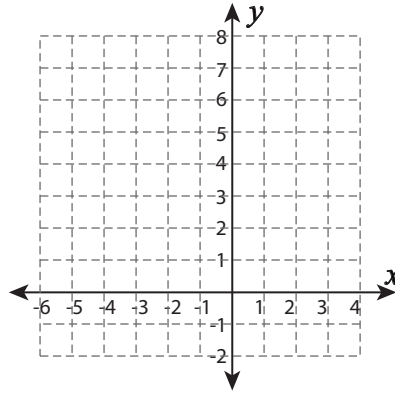
1)  $f(x) = 2x+1$

|        |    |    |   |   |   |
|--------|----|----|---|---|---|
| $x$    | -3 | -2 | 0 | 1 | 2 |
| $f(x)$ |    |    |   |   |   |



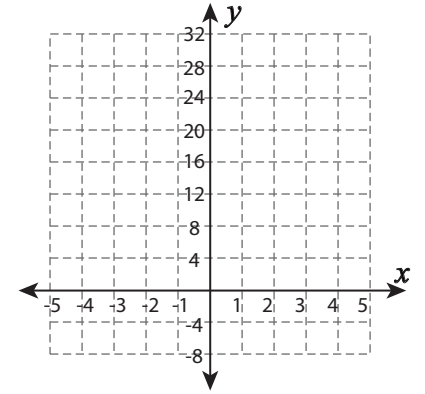
2)  $f(x) = x+5$

|        |    |    |    |   |   |
|--------|----|----|----|---|---|
| $x$    | -6 | -5 | -3 | 1 | 3 |
| $f(x)$ |    |    |    |   |   |



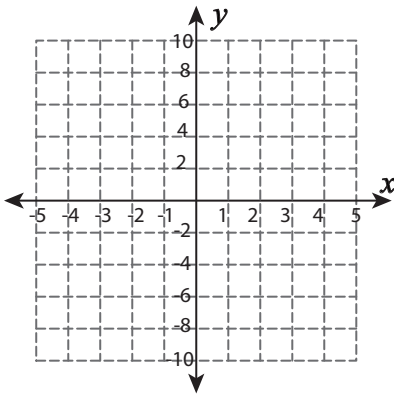
3)  $f(x) = 4-8x$

|        |    |    |    |   |   |
|--------|----|----|----|---|---|
| $x$    | -3 | -2 | -1 | 0 | 1 |
| $f(x)$ |    |    |    |   |   |



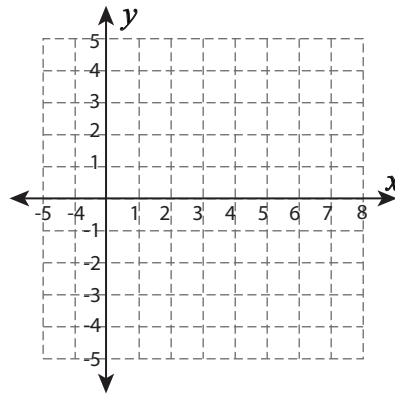
4)  $f(x) = 2x$

|        |    |    |    |   |   |
|--------|----|----|----|---|---|
| $x$    | -3 | -2 | -1 | 0 | 2 |
| $f(x)$ |    |    |    |   |   |



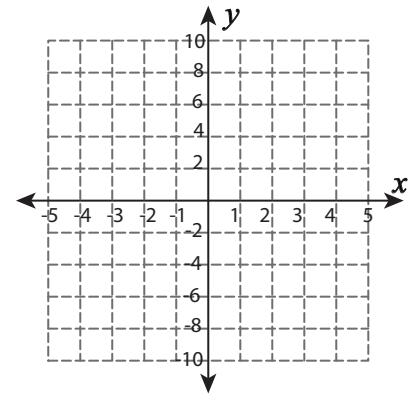
5)  $f(x) = x-9$

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| $x$    | 4 | 5 | 6 | 7 | 8 |
| $f(x)$ |   |   |   |   |   |



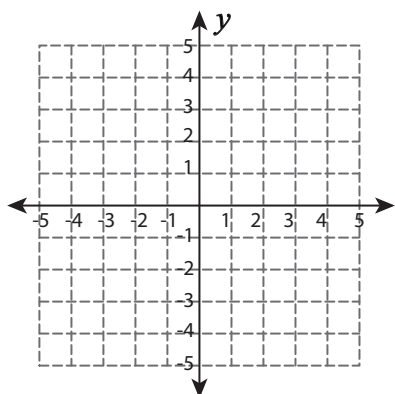
6)  $f(x) = 2x+4$

|        |    |    |    |   |   |
|--------|----|----|----|---|---|
| $x$    | -4 | -2 | -1 | 2 | 3 |
| $f(x)$ |    |    |    |   |   |



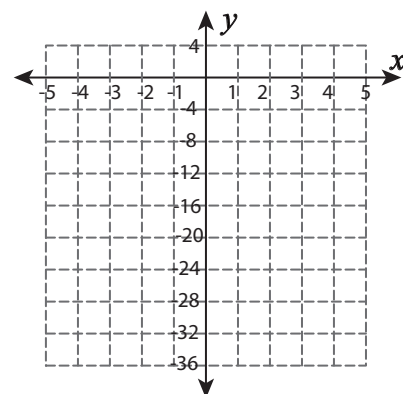
7)  $f(x) = -4-x$

|        |    |    |    |   |   |
|--------|----|----|----|---|---|
| $x$    | -3 | -2 | -1 | 0 | 1 |
| $f(x)$ |    |    |    |   |   |



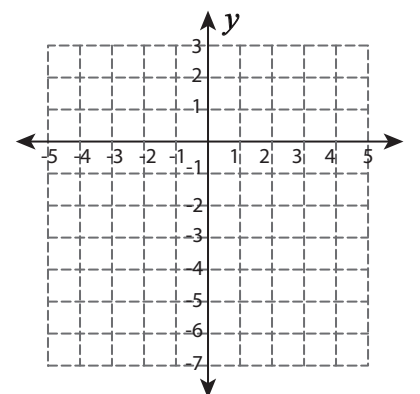
8)  $f(x) = 4x-12$

|        |    |    |   |   |   |
|--------|----|----|---|---|---|
| $x$    | -5 | -3 | 0 | 1 | 2 |
| $f(x)$ |    |    |   |   |   |



9)  $f(x) = -x-2$

|        |    |    |   |   |   |
|--------|----|----|---|---|---|
| $x$    | -3 | -1 | 1 | 3 | 5 |
| $f(x)$ |    |    |   |   |   |

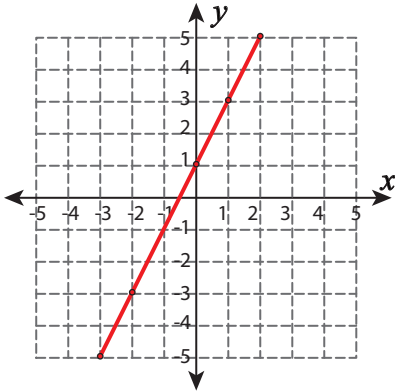


**Answer Key**

Compute the function table. Draw the graph of each function.

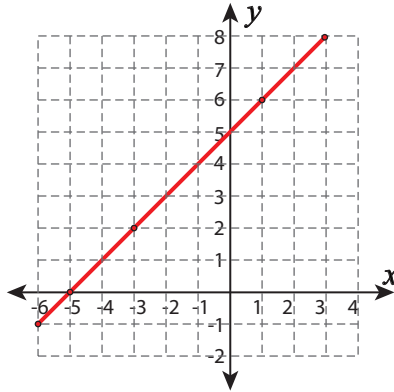
1)  $f(x) = 2x+1$

|        |           |           |          |          |          |
|--------|-----------|-----------|----------|----------|----------|
| $x$    | -3        | -2        | 0        | 1        | 2        |
| $f(x)$ | <b>-5</b> | <b>-3</b> | <b>1</b> | <b>3</b> | <b>5</b> |



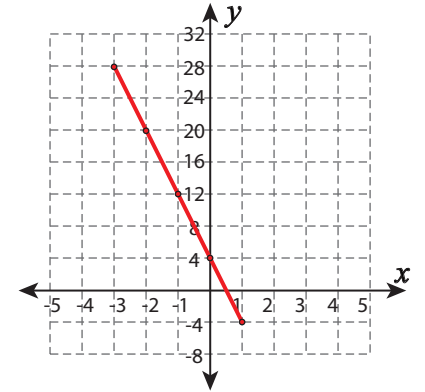
2)  $f(x) = x+5$

|        |           |          |          |          |          |
|--------|-----------|----------|----------|----------|----------|
| $x$    | -6        | -5       | -3       | 1        | 3        |
| $f(x)$ | <b>-1</b> | <b>0</b> | <b>2</b> | <b>6</b> | <b>8</b> |



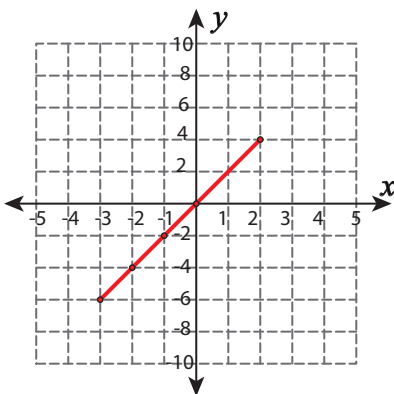
3)  $f(x) = 4-8x$

|        |           |           |           |          |           |
|--------|-----------|-----------|-----------|----------|-----------|
| $x$    | -3        | -2        | -1        | 0        | 1         |
| $f(x)$ | <b>28</b> | <b>20</b> | <b>12</b> | <b>4</b> | <b>-4</b> |



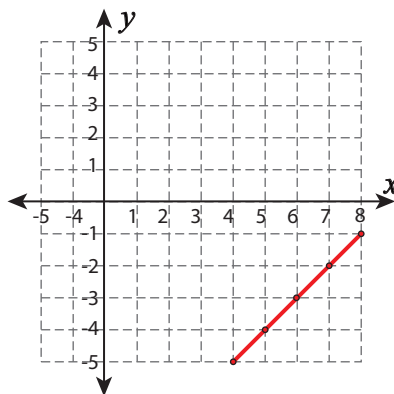
4)  $f(x) = 2x$

|        |           |           |           |          |          |
|--------|-----------|-----------|-----------|----------|----------|
| $x$    | -3        | -2        | -1        | 0        | 2        |
| $f(x)$ | <b>-6</b> | <b>-4</b> | <b>-2</b> | <b>0</b> | <b>4</b> |



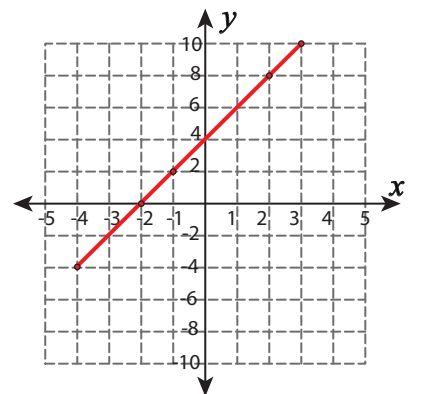
5)  $f(x) = x-9$

|        |           |           |           |           |           |
|--------|-----------|-----------|-----------|-----------|-----------|
| $x$    | 4         | 5         | 6         | 7         | 8         |
| $f(x)$ | <b>-5</b> | <b>-4</b> | <b>-3</b> | <b>-2</b> | <b>-1</b> |



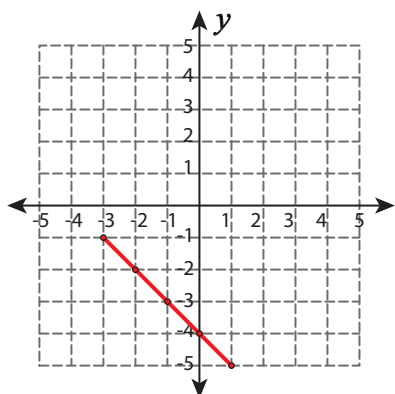
6)  $f(x) = 2x+4$

|        |           |          |          |          |           |
|--------|-----------|----------|----------|----------|-----------|
| $x$    | -4        | -2       | -1       | 2        | 3         |
| $f(x)$ | <b>-4</b> | <b>0</b> | <b>2</b> | <b>8</b> | <b>10</b> |



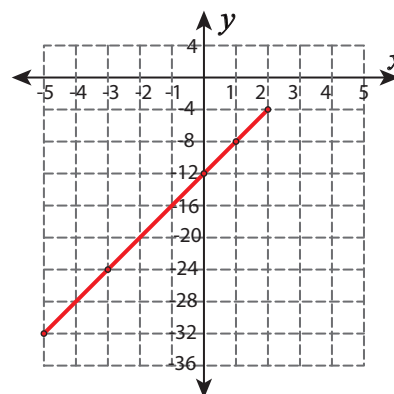
7)  $f(x) = -4-x$

|        |           |           |           |           |           |
|--------|-----------|-----------|-----------|-----------|-----------|
| $x$    | -3        | -2        | -1        | 0         | 1         |
| $f(x)$ | <b>-1</b> | <b>-2</b> | <b>-3</b> | <b>-4</b> | <b>-5</b> |



8)  $f(x) = 4x-12$

|        |            |            |            |           |           |
|--------|------------|------------|------------|-----------|-----------|
| $x$    | -5         | -3         | 0          | 1         | 2         |
| $f(x)$ | <b>-32</b> | <b>-24</b> | <b>-12</b> | <b>-8</b> | <b>-4</b> |



9)  $f(x) = -x-2$

|        |          |           |           |           |           |
|--------|----------|-----------|-----------|-----------|-----------|
| $x$    | -3       | -1        | 1         | 3         | 5         |
| $f(x)$ | <b>1</b> | <b>-1</b> | <b>-3</b> | <b>-5</b> | <b>-7</b> |

