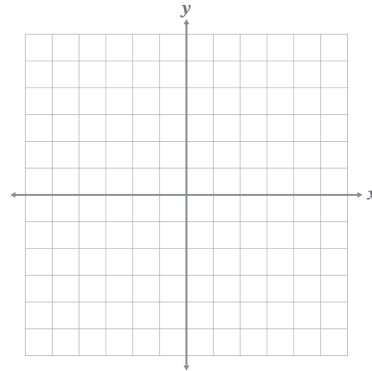


8B, Practice 1

- 3) Complete a table for the parent function.

| x | $f(x) = x$ |
|-----|------------|
| -4 | |
| 0 | |
| 2 | |
| 5 | |

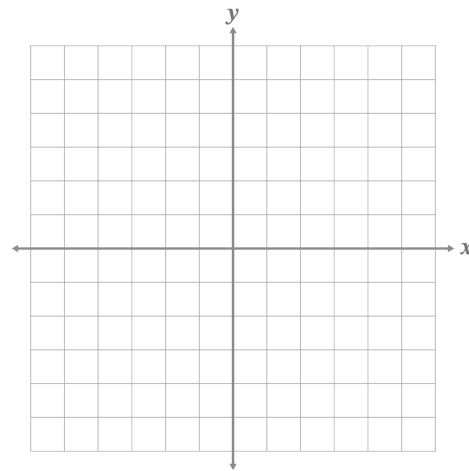
- 4) Graph the parent function from your table in problem 3.



- 7) Fill in the table for the functions indicated. Explain how to transform the graph of $f(x)$ to create the graph of $g(x)$.

| x | $f(x) = x$ | $g(x) = x + 1$ |
|-----|------------|----------------|
| -4 | | |
| 0 | | |
| 2 | | |
| 3 | | |

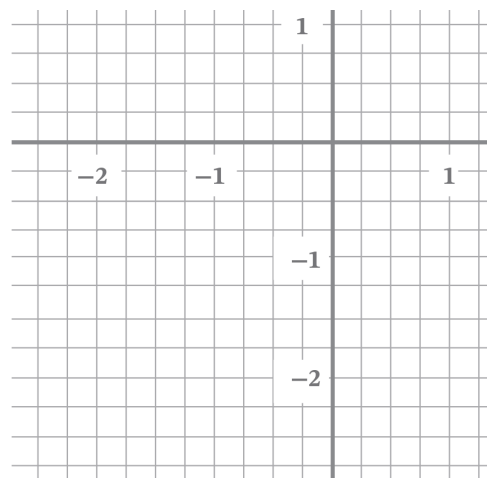
- 8) Graph $f(x)$ and $g(x)$ from problem 7 on the same coordinate plane.



- 9) Fill in the table for the functions indicated. Explain how to transform the graph of $f(x)$ to create the graph of $g(x)$.

| x | $f(x) = x$ | $g(x) = x - \frac{1}{2}$ |
|----------------|------------|--------------------------|
| -2 | | |
| $-\frac{1}{2}$ | | |
| 0 | | |
| $\frac{1}{2}$ | | |

- 10) Graph $f(x)$ and $g(x)$ from problem 9 on the same coordinate plane. Note the scale of the graph.



- 12) Fill in the table below. Will the graph still translate by b when the coefficient of x changes?

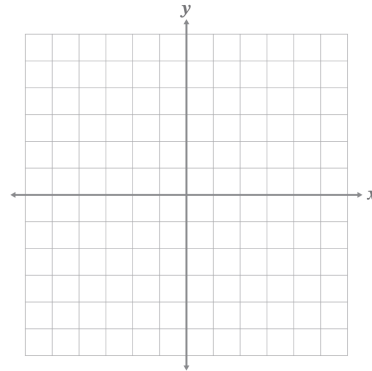
| x | $f(x) = 2x$ | $g(x) = 2x - 1$ |
|-----|-------------|-----------------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |

8B, Practice 2

3) Complete the table for the parent function.

| x | $f(x) = x$ |
|---------------|------------|
| -2 | |
| | 0 |
| $\frac{2}{5}$ | |
| | 56 |

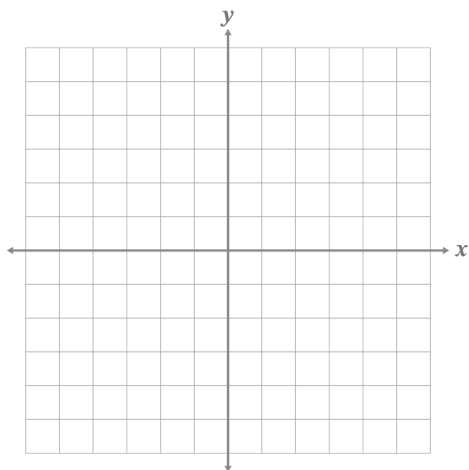
4) Graph the parent function from your table in problem 3.



7) Fill in the table for the functions indicated. Explain how to transform the graph of $f(x)$ to create the graph of $g(x)$

| x | $f(x) = x$ | $g(x) = x - 5$ |
|-----|------------|----------------|
| -4 | | |
| 0 | | |
| 2 | | |
| 5 | | |

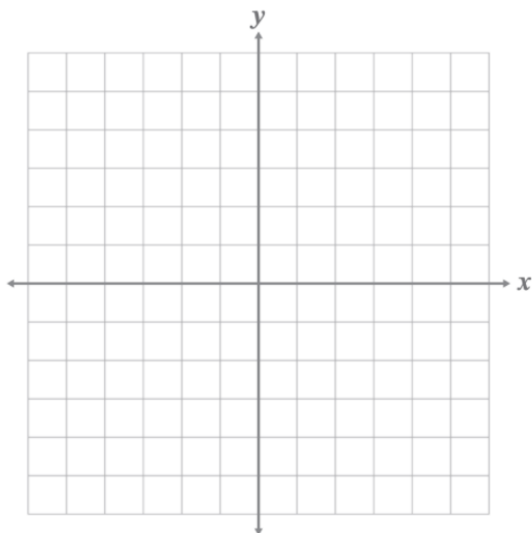
8) Graph $f(x)$ and $g(x)$ from problem 7 on the same coordinate plane.



- 9) Fill in the table for the functions indicated. Explain how to transform the graph of $f(x)$ to create the graph of $g(x)$

| x | $f(x) = x$ | $g(x) = x + 15$ |
|-----|------------|-----------------|
| -30 | | |
| 0 | | |
| 15 | | |
| 40 | | |

- 10) Graph $f(x)$ and $g(x)$ from problem 9 on the same coordinate plane. Note the scale of the graph.



- 11) Fill in the table below. Will the graph still translate by a factor of b when the coefficient of x changes?

| x | $f(x) = -\frac{1}{2}x$ | $g(x) = -\frac{1}{2}x + \frac{3}{2}$ |
|-----|------------------------|--------------------------------------|
| -4 | | |
| 0 | | |
| 2 | | |
| 5 | | |