

Translation - Function

Sheet 1

Write the translated function.

1) $f(x) = 12x + 3$; shifts 2 units left.

$$g(x) = \underline{\hspace{2cm}}$$

2) $f(x) = -7x - 4$; shifts 5 units down.

$$g(x) = \underline{\hspace{2cm}}$$

3) $f(x) = 11x + 10$; shifts 3 units up.

$$g(x) = \underline{\hspace{2cm}}$$

4) $f(x) = 8x - 6$; shifts 7 units right.

$$g(x) = \underline{\hspace{2cm}}$$

5) $f(x) = -5x + 7$; shifts 1 unit left.

$$g(x) = \underline{\hspace{2cm}}$$

6) $f(x) = 6x - 12$; shifts 4 units down.

$$g(x) = \underline{\hspace{2cm}}$$

Answer key**Translation - Function**

Sheet 1

Write the translated function.

1) $f(x) = 12x + 3$; shifts 2 units left.

$$g(x) = \underline{\mathbf{12x + 27}}$$

2) $f(x) = -7x - 4$; shifts 5 units down.

$$g(x) = \underline{\mathbf{-7x - 9}}$$

3) $f(x) = 11x + 10$; shifts 3 units up.

$$g(x) = \underline{\mathbf{11x + 13}}$$

4) $f(x) = 8x - 6$; shifts 7 units right.

$$g(x) = \underline{\mathbf{8x - 62}}$$

5) $f(x) = -5x + 7$; shifts 1 unit left.

$$g(x) = \underline{\mathbf{-5x + 2}}$$

6) $f(x) = 6x - 12$; shifts 4 units down.

$$g(x) = \underline{\mathbf{6x - 16}}$$