

Transformation - Compression/Stretch

Write the transformed function.

1) $f(x) = 2x + 3$; stretched vertically by a factor of 5.

$g(x) =$ _____

2) $f(x) = -10x - 3$; compressed horizontally by a factor of $\frac{5}{8}$.

$g(x) =$ _____

3) $f(x) = 6x +$

$g(x) =$ _____

4) $f(x) = -14x$

$g(x) =$ _____

5) $f(x) = x - 1$

$g(x) =$ _____

6) $f(x) = -5x - 4$; stretched vertically by a factor of 10.

$g(x) =$ _____

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Answer key**Transformation - Compression/Stretch**

Sheet 1

Write the transformed function.

1) $f(x) = 2x + 3$; stretched vertically by a factor of 5.

$g(x) = \underline{10x + 15}$

2) $f(x) = -10x - 3$; compressed horizontally by a factor of $\frac{5}{8}$.

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

3) $f(x) = 6x +$

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

4) $f(x) = -14x$

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

5) $f(x) = x - 1$

$g(x) = \underline{6x - 11}$

6) $f(x) = -5x - 4$; stretched vertically by a factor of 10.

$g(x) = \underline{-50x - 40}$

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