

Transformation - Compression/Stretch

Write the transformed function.

1) $f(x) = -12x + 1$; stretched horizontally by a factor of $\frac{6}{5}$.

$g(x) =$ _____

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

$g(x) =$ _____

3) $f(x) = 10x$

$g(x) =$ _____

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

$g(x) =$ _____

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

$g(x) =$ _____

6) $f(x) = 2x + 5$; compressed horizontally by a factor of $\frac{1}{8}$.

$g(x) =$ _____

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Answer key**Transformation - Compression/Stretch**

Sheet 3

Write the transformed function.

1) $f(x) = -12x + 1$; stretched horizontally by a factor of $\frac{6}{5}$.

$g(x) = \underline{-10x + 1}$

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

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

3) $f(x) = 10x$

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

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

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

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

$g(x) = \underline{10x + 6}$

6) $f(x) = 2x + 5$; compressed horizontally by a factor of $\frac{1}{8}$.

$g(x) = \underline{16x + 5}$

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