

Transformation - Compression/Stretch

Write the transformed function.

1) $f(x) = 15x - 20$; compressed vertically by a factor of $\frac{1}{5}$.

$g(x) =$ _____

2) $f(x) = -9x - 9$; compressed horizontally by a factor of $\frac{3}{5}$.

$g(x) =$ _____

3) $f(x) = 8x +$

$g(x) =$ _____

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

$g(x) =$ _____

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

$g(x) =$ _____

6) $f(x) = -7x - 5$; stretched vertically by a factor of 7.

$g(x) =$ _____

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Answer key**Transformation - Compression/Stretch**

Sheet 4

Write the transformed function.

1) $f(x) = 15x - 20$; compressed vertically by a factor of $\frac{1}{5}$.

$g(x) = \underline{\quad 3x - 4 \quad}$

2) $f(x) = -9x - 9$; compressed horizontally by a factor of $\frac{3}{5}$.

$g(x) = \underline{\quad}$

3) $f(x) = 8x +$

$g(x) = \underline{\quad}$

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

$g(x) = \underline{\quad}$

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

$g(x) = \underline{\quad 9x + 2 \quad}$

6) $f(x) = -7x - 5$; stretched vertically by a factor of 7.

$g(x) = \underline{\quad -49x - 35 \quad}$

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