

Transformation - Compression/Stretch

Write the transformed function.

1) $f(x) = -4x + 7$; compressed horizontally by a factor of $\frac{1}{4}$.

$g(x) =$ _____

2) $f(x) = 14x - 8$; stretched horizontally by a factor of $\frac{7}{3}$.

$g(x) =$ _____

3) $f(x) = 10x$

$g(x) =$ _____

4) $f(x) = -3x$

$g(x) =$ _____

5) $f(x) = -9x$

$g(x) =$ _____

6) $f(x) = 18x + 27$; compressed vertically by a factor of $\frac{1}{9}$.

$g(x) =$ _____

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Answer key**Transformation - Compression/Stretch**

Sheet 2

Write the transformed function.

1) $f(x) = -4x + 7$; compressed horizontally by a factor of $\frac{1}{4}$.

$g(x) = \underline{-16x + 7}$

2) $f(x) = 14x - 8$; stretched horizontally by a factor of $\frac{7}{3}$.

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

3) $f(x) = 10x$

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

4) $f(x) = -3x$

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

5) $f(x) = -9x$

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

6) $f(x) = 18x + 27$; compressed vertically by a factor of $\frac{1}{9}$.

$g(x) = \underline{2x + 3}$

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