

Transformation - Compression/Stretch

Write the transformed function.

1) $f(x) = 10x + 20$; compressed vertically by a factor of $\frac{4}{5}$.

$g(x) =$ _____

2) $f(x) = 16x - 9$; stretched horizontally by a factor of 8.

$g(x) =$ _____

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

$g(x) =$ _____

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

$g(x) =$ _____

5) $f(x) = 7x +$

$g(x) =$ _____

6) $f(x) = 18x - 12$; stretched horizontally by a factor of $\frac{9}{5}$.

$g(x) =$ _____

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Answer key**Transformation - Compression/Stretch**

Sheet 5

Write the transformed function.

1) $f(x) = 10x + 20$; compressed vertically by a factor of $\frac{4}{5}$.

$g(x) = \underline{8x + 16}$

2) $f(x) = 16x - 9$; stretched horizontally by a factor of 8.

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

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

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

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

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

5) $f(x) = 7x +$

$g(x) = \underline{5x + 15}$

6) $f(x) = 18x - 12$; stretched horizontally by a factor of $\frac{9}{5}$.

$g(x) = \underline{10x - 12}$

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