



Inverse of Linear Function

Version 1

Name: _____

Date: _____

Score: _____

Direction: Find the inverse of each linear function. Show all your work in the space provided.

1) $f(x) = 2x + 1$

2) $f(x) = \frac{3x-1}{2}$

3) $f(x) = 7x - 5$ for $x > 3$. State its domain.

4) $f(x) = -x - 1$ for $x < -3$. State its domain.



Name: _____

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Direction: Find the inverse of each linear function. Show all your work in the space provided.

1) $f(x) = 2x + 1$

$$f^{-1}(x) = \frac{x}{2} - \frac{1}{2}$$

2) $f(x) = \frac{3x-1}{2}$

$$f^{-1}(x) = \frac{2x}{3} + \frac{1}{3}$$

3) $f(x) = 7x - 5$ for $x > 3$. State its domain.

$$f^{-1}(x) = \frac{x}{7} + \frac{5}{7} \text{ for } x > 16$$

4) $f(x) = -x - 1$ for $x < -3$. State its domain.

$$f^{-1}(x) = -x - 1 \text{ for } x > 2$$