

**Inverse Functions - Linear**

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**Find the inverse of each function.**

1)  $g(n) = -2 - \frac{3}{5}n$

2)  $g(n) = \frac{-10 + n}{5}$

3)  $f(x) = \frac{4 + x}{4}$

4)  $g(x) = -5x - 15$

5)  $h(x) = \frac{5x - 5}{4}$

6)  $g(n) = \frac{9 - n}{3}$

7)  $g(n) = -2n + 2$

8)  $g(n) = -n - 3$

9)  $f(n) = -\frac{1}{8}n - \frac{1}{2}$

10)  $g(x) = x - 4$

## Answers to Inverse Functions - Linear (ID: 1)

$$1) g^{-1}(n) = -\frac{5}{3}n - \frac{10}{3}$$

$$2) g^{-1}(n) = 5n + 10$$

$$3) f^{-1}(x) = 4x - 4$$

$$4) g^{-1}(x) = \frac{-15 - x}{5}$$

$$5) h^{-1}(x) = \frac{5 + 4x}{5}$$

$$6) g^{-1}(n) = -3n + 9$$

$$7) g^{-1}(n) = 1 - \frac{1}{2}n$$

$$8) g^{-1}(n) = -n - 3$$

$$9) f^{-1}(n) = -8n - 4$$

$$10) g^{-1}(x) = x + 4$$