

Assignment

Date _____ Period _____

State if the given functions are inverses.

1) $g(x) = x - 1$
 $f(x) = x + 1$

2) $f(x) = 2x + 2$
 $g(x) = \frac{x - 2}{2}$

3) $f(x) = 1 + \frac{3}{5}x$
 $g(x) = \frac{5}{3}x - \frac{5}{3}$

4) $g(x) = -4x + 4$
 $f(x) = \frac{-10 + 2x}{5}$

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

6) $f(x) = \frac{4 + x}{4}$
 $g(x) = 4x - 4$

7) $f(x) = -5x - 19$
 $h(x) = -\frac{1}{5}x - \frac{19}{5}$

8) $f(x) = -2 + \frac{3}{4}x$
 $h(x) = \frac{4}{5}x + \frac{8}{5}$

9) $f(x) = \frac{2x}{3}$
 $g(x) = \frac{3x}{2}$

10) $f(x) = -1 + \frac{1}{2}x$
 $g(x) = -5 - \frac{5}{4}x$

11) $f(x) = 1 - \frac{5}{3}x$
 $g(x) = -\frac{3}{5}x + \frac{3}{5}$

12) $g(x) = 1 - \frac{1}{2}x$
 $f(x) = 4x + 1$

13) $f(x) = \frac{2x - 4}{7}$
 $g(x) = 3x + 4$

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

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$g(x) = \frac{5}{3}x - \frac{5}{3}$

Yes

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

No

7) $f(x) = -5x - 19$
 $h(x) = -\frac{1}{5}x - \frac{19}{5}$

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9) $f(x) = \frac{2x}{3}$
 $g(x) = \frac{3x}{2}$

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11) $f(x) = 1 - \frac{5}{3}x$
 $g(x) = -\frac{3}{5}x + \frac{3}{5}$

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13) $f(x) = \frac{2x - 4}{7}$
 $g(x) = 3x + 4$

No

2) $f(x) = 2x + 2$
 $g(x) = \frac{x - 2}{2}$

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4) $g(x) = -4x + 4$
 $f(x) = \frac{-10 + 2x}{5}$

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6) $f(x) = \frac{4 + x}{4}$
 $g(x) = 4x - 4$

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8) $f(x) = -2 + \frac{3}{4}x$
 $h(x) = \frac{4}{5}x + \frac{8}{5}$

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 $f(x) = 4x + 1$

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

No