

Unit 9.7 Inverse Functions PRACTICE

Period _____

State if the given functions are inverses.

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

$$2) \quad g(x) = -\frac{4}{x}$$
$$f(x) = -\frac{4}{x}$$

$$3) \quad f(x) = \frac{-5x-15}{7}$$
$$g(x) = \frac{-x+2}{2}$$

$$4) \quad g(x) = (x+2)^5$$
$$f(x) = \sqrt[5]{x} - 2$$

$$5) \quad h(x) = \frac{3}{x+1} + 2$$
$$f(x) = \frac{3}{x-2} - 1$$

$$6) \quad f(x) = -\frac{1}{4}x$$
$$g(x) = \frac{x+5}{5}$$

$$7) \quad f(x) = \frac{-x-4}{5}$$
$$g(x) = -\frac{1}{3}x + \frac{1}{3}$$

$$8) \quad g(x) = \frac{4}{7}x - \frac{20}{7}$$
$$f(x) = 5 + \frac{7}{4}x$$

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

$$10) \quad f(x) = \frac{-x+4}{3}$$
$$g(x) = \frac{5x-15}{6}$$

Find the inverse of each function.

$$11) f(x) = \frac{x+2}{2}$$

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

$$13) h(x) = 9x - 4$$

$$14) g(x) = \frac{-6 - \sqrt[5]{16x}}{2}$$

$$15) g(x) = \sqrt[3]{\frac{-x-1}{2}}$$

$$16) f(x) = \frac{-6x-7}{5}$$

$$17) f(x) = 5x + 20$$

$$18) g(x) = \sqrt[5]{x} + 2$$

$$19) f(x) = \frac{6+7x}{3}$$

$$20) g(x) = \frac{3}{x-1} + 1$$

$$21) f(x) = -\frac{4}{x} + 2$$

$$22) g(x) = (x-1)^3 - 2$$

$$23) f(x) = -\frac{2x}{5}$$

$$24) g(x) = -2x^5 + 2$$