

Exam

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Find the inverse of the function.

1) $f(x) = 5x - 3$

2) $f(x) = x^3 + 7$

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

4) $f(x) = \frac{-6x + 8}{8x - 3}$

Confirm that f and g are inverses by showing that $f(g(x)) = x$ and $g(f(x)) = x$.

5) $f(x) = \frac{x + 5}{9}$ and $g(x) = 9x - 5$

6) $f(x) = x^2 - 7$ and $g(x) = \sqrt{7 + x}$

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

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