Algebra II

Day 13 Formative Ticket

Finding Inverse Functions Algebraically and Verifying Inverse Functions

Verify that f(x) and g(x) are inverse functions.

1) $f(x) = x^2$ $\qquad\qquad$ $g(x) = \sqrt{x}$

2) $f(x) = 3 - 4x$ $\qquad\qquad$ $g(x) = \dfrac{3-x}{4}$

3) $f(x) = \dfrac{x^3}{8}$ $\qquad\qquad$ $g(x) = 8\sqrt[3]{x}$

4) $f(x) = \dfrac{x+3}{x-2}$ $\qquad\qquad$ $g(x) = \dfrac{2x+3}{x-1}$

Find the inverse function for each equations

1) $f(x) = 2x$

2) $f(x) = 7x + 1$

3) $f(x) = \dfrac{x^3}{8}$

4) $f(x) = \sqrt{x-4}$