

Algebra II

Day 13 Formative Ticket

Standards

MGSE9-12.F.BF.4 (Inverse functions)

MGSE9-12.F.BF.4a ($f(x)=c$ & inverse)

MGSE9-12.F.BF.4b (Use composition to verify inverses)

• R1: I can use composition functions to verify inverse function relationships.

MGSE9-12.F.BF.4c (Values of inverse function from graph or table)

• K1: I can read values of an inverse function from a graph or table.

Target(s): Finding Inverse Functions Algebraically; Finding Inverse Values from a Table

Finding Inverse Functions Algebraically and Verifying Inverse Functions

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

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

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

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

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

Find the inverse function for each equations

1) $f(x) = 2x$

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

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

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