Math 3 **2.7 Inverse Relations (Equations)** Unit 2

*EQ: How can we find the inverse of a function given the equation of a function?*

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| To find an inverse:   1. Swap x and y 2. Solve for y 3. Rewrite by writing f-1(x) = |

**Example 1:** Find the inverse of the function f(x) = x2 – 9

**Example 2:** Find the inverse of the function

**You Try!** Find the inverse of the function

**Challenge!** Find the inverse of f(x) =

Math 3 **2.8 Verifying Inverse Relations** Unit 2

*EQ: How do we verify that two relations are inverses of each other?*

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| Determining if Two Relations are Inverses of Each Other:   1. Find f(g(x)) 2. If the composition = x, then the relations are inverses of each other! |

**Example 1:** Determine if each of the following are inverses of each other.

1. 



1. 



1. 

