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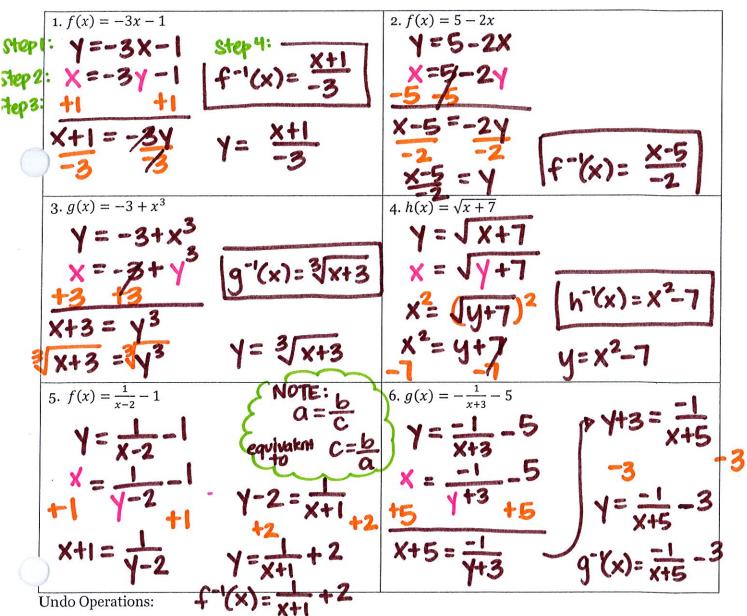
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2.8 Inverse Functions EX: y=2x+3 if $y=\frac{x-3}{2}$

Inverse of a function: Undoes the actions of another function.

| Steps to Finding the Inverse Function | Fun Facts About Inverses |
|--|---|
| 1. Change f(x) to y. | Suppose f(x) and g(x) are inverse functions then |
| 2. Swap x and y (meaning x becomes y and y becomes x). | f(g(x)) = g(f(x)) = x. |
| 3. Solve for y. | f(x) and $g(x)$ are reflections of each other in the line $y=x$. |
| 4. Change $y = to f^{-1}(x) =$ (this is the notation for the inverse of f) | we claim that $g(x)$ is $f^{-1}(x)$ which means "f inverse" or "the inverse of f" |

Find the inverse function for the following functions. Remember undo operations!!



 \Box^2 and $\sqrt{\Box}$

□³and ³√□