Name: _____

Inverse of Functions

1) If $f(x) = 10^x$ and $g(x) = \log_{10} 10x$, then evaluate

   i) $(f \circ g)(x)$ = _____

   ii) $(g \circ f)(x)$ = _____

   iii) Are the functions $f(x)$ and $g(x)$ inverses? _____

2) If $f(x) = \left(\dfrac{x+9}{5}\right)^{\frac{1}{5}}$ and $g(x) = 5x^5 - 9$, then evaluate

   i) $(f \circ g)(x)$ = _____

   iii) Are the functions

3) Determine algebraic are inverses of each other.

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4) Determine algebraically whether $f(x) = 2x + 11$ and $g(x) = -1 - 11x$ are inverses of each other.