Answer on Question #48445 – Math - Algebra

a) If f is one-to-one and $f(-12)=14$, then $f^{-1}(14)=$ and $\left(f(-12)\right)^{-1}=$.

b) If g is one-to-one and $g(-7)=10$, then $g^{-1}(10)=$ and $\left(g(-7)\right)^{-1}=$.

Solution.

a) If f is one-to-one and $f(-12)=14$, then $f^{-1}(14)=-12$ and $\left(f(-12)\right)^{-1}=\frac{1}{14}$.

b) If g is one-to-one and $g(-7)=10$, then $g^{-1}(10)=-7$ and $\left(g(-7)\right)^{-1}=\frac{1}{10}$.

Answer: a) $f^{-1}(14)=-12$; $\left(f(-12)\right)^{-1}=\frac{1}{14}$; b) $g^{-1}(10)=-7$; $\left(g(-7)\right)^{-1}=\frac{1}{10}$.