Write true or false and justify your answer:
1) the function $f : R \to R$ defined by $f(x) = \cos x$ is one to one

Solution. Since there exist $x = 2\pi \in R$ and $y = 0 \in R$ such that $x \neq y$, but $f(x) = \cos 2\pi = 1 = \cos 0 = f(y)$, then we obtain that $f(x) = \cos x$ isn't an one to one function. Thus the answer is FALSE

Answer. FALSE

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