# Proofs Involving Functions 

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Name $\qquad$
Instructions. Prove or disprove:

1. $f: \Re \longrightarrow \Re$ given by $f(x)=4 x-7$, is one to one.
2. $f: \Re \longrightarrow \Re$ given by $f(x)=4 x-7$, is onto.
3. $f: \Re \longrightarrow \Re$ given by $f(x)=2 x^{2}+4$, is one to one.
4. $f: \Re \longrightarrow \Re$ given by $f(x)=2 x^{2}+4$, is onto.
5. $f: \Re \longrightarrow \Re$ given by $f(x)=3 x^{3}+2$, is one to one.
6. $f: \Re \longrightarrow \Re$ given by $f(x)=3 x^{3}+2$, is onto.
