Proofs Involving Functions

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Name __

Instructions. Prove or disprove:

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