IF.05.22 — Theoretical Informatics — Proof Exercises

1. **Indirect Proof and Proof by Contradiction** Given the following statement

$$x = 2 \Rightarrow 3x - 5 \neq 10$$

   Proof this statement
   (a) indirectly
   (b) by contradiction

2. **Indirect Proof and Proof by Contradiction** Given the statement
   n^2 is odd $\Rightarrow$ n must be odd. Proof this statement
   (a) indirectly
   (b) by contradiction