Homework 2
CMPSC 360

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Question 1:

1. This is a statement because the truth value of the statement can be determined: Obama was the president during 2010 or not
2. This is a statement becuase the quantity x + 3 could be a positive integer or not, which means the truth value can be determined
3. This is a statement because 15 is either an odd number or it is not
4.

Question 2:

a) If $1 + 1 = 3 \to$ F, then dogs can fly $\to$ F $\Rightarrow$ $\underline{T}$
b) If $1 + 1 = 2 \to$ T, then dogs can fly $\to$ F $\Rightarrow$ $\overline{\underline{F}}$
c) If $2 + 2 = 4 \to$ T, then $1 + 2 = 3 \to$ T $\Rightarrow$ $\underline{T}$

Question 3:

1. a