

**5-4**

Indirect Proofs

**Indirect Proof**

(Proof by Contradiction)

*Assume what you are trying to prove is false*

**STATE THE ASSUMPTION FOR STARTING AN INDIRECT PROOF**

1) If 6 is a factor of  $n$ , then 2 is a factor of  $n$ .

2) Angle 3 is an obtuse angle

3)  $x > 5$

4) Triangle XYZ is an equilateral triangle