Examples for pg 3.16

Identify the following properties as substitution, addition, subtraction, multiplication, or division. You may want to refer back to page 3.11.

1. If $m\angle 1 + m\angle 3 = 180$ and $m\angle 2 + m\angle 4 = 180$, then $m\angle 1 + m\angle 3 = m\angle 2 + m\angle 4$.

Substitution

2. If $m\angle 1 = m\angle 3$ and $m\angle 2 = m\angle 4$, then $m\angle 1 + m\angle 2 = m\angle 3 + m\angle 4$.

Addition

Write conclusion, and justify using one of the properties above.

3. If $m\angle 3 + m\angle 4 = m\angle 5$ and $m\angle 3 = m\angle 4$, then $\underline{\quad m\angle 4 + m\angle 4 = m\angle 5 \quad}$ $\underline{Substitution}$

Just ONE step- not solving entire problem!

4. If $m\angle 2 + 90° = 180°$, then $\underline{\quad m\angle 2 = 90° \quad}$ $\underline{Subtraction}$

$-90 \quad -90$