

9-25-13

1st Geo

⑫ From last night's HW (2-2)

p: $\angle A$ is acute

q: $\angle B$ is acute

r: $\angle C$ is acute

Ⓐ $\angle A$ is acute if and only if $\angle B$ is acute

p \leftrightarrow q

p \leftrightarrow q

Ⓑ $\angle A$ is acute or $\angle B$ is acute.

p \vee q

p \vee q

Ⓒ If $\angle A$ is acute or $\angle B$ is acute,
then $\angle C$ is not obtuse.

p \vee q $\rightarrow \sim r$

Properties

$a = a$
 $\angle ABC = \angle ABC$
 $AD = AD$ Reflexive

If $AB = XY$, then
 $XY = AB$ Symmetric

If $AB = 2$ and
 $AB + XY = 10$, then Substitution

$2 + XY = 10$.

If $AB = CD$ and $CD = XY$
then $AB = XY$ Transitive

$$\text{If } A + 2 = 10,$$
$$\text{then } A = 8$$

Subtraction

$$\text{If } AB + 6 = CD,$$
$$\text{then } AB = CD - 6$$

$$\text{If } X - 4 = 80,$$
$$\text{then } X = 84$$

Addition

$$\text{If } AB - 7 = CD,$$
$$\text{then } AB = CD + 7$$

$$\text{If } 2x = 8,$$
$$\text{then } x = 4$$

Division

$$\text{If } 3 \cdot AB = 12,$$
$$\text{then } AB = 4.$$

$$\text{If } \frac{x}{2} = 10,$$

$$\text{then } x = 20$$

Multiplication

$$\text{If } \frac{AB}{2} = 10,$$

$$\text{then } AB = 20.$$