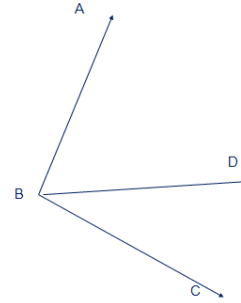
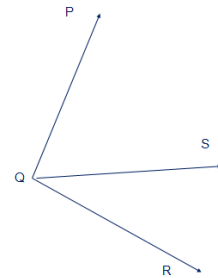
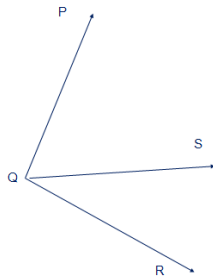
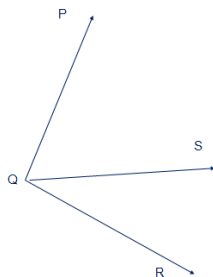


Notes Angle Addition Postulate

Name: _____ Date: _____ Period: _____

Learning Target: _____

Angle Addition Postulate

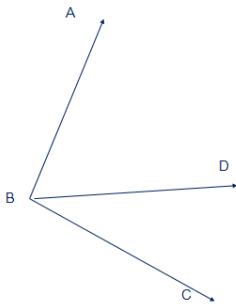
Example 1: $m\angle PQS=72$, $m\angle SQR=22$, $m\angle PQR=?$ Example 2: $m\angle PQS=62$, $m\angle SQR=?$, $m\angle PQR=98$ Example 3: $m\angle PQS=6x$, $m\angle SQR=x+10$, $m\angle PQR=8x-2$.
Solve...Example 4: S is interior to $\angle PQR$, $m\angle PQS=8x$, $m\angle SQR=4x$,
 $m\angle PQR=100+2x$. Solve...

Example 5: Ray TR bisects $\angle STP$, $m\angle STP=7x+1$,
 $m\angle STR=5x-10$. Solve...

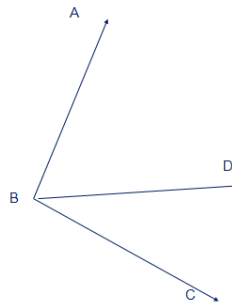
Example 6: Ray TR bisects $\angle STP$, $m\angle RTP=9x+4$,
 $m\angle STR=59-2x$. Solve...

Show me you can do it!

1. $m\angle ABD = 28$, $m\angle DBC = 19$, $m\angle ABC = ?$



2. $m\angle ABC = 85$, $m\angle DBC = 35$, $m\angle ABD = ?$



3. G is interior to $\angle DEF$. $m\angle DEG = 3x + 5$, $m\angle GEF = 4x + 6$, $m\angle DEF = 12x - 4$. Solve for x.

4. O is interior to $\angle LMN$. $m\angle LMN = 40 - 5x$, $m\angle LMO = 6x + 8$, $m\angle OMN = 6x - 2$. Solve for x.