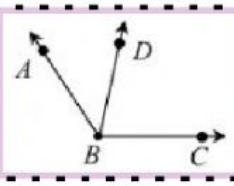
Angle Addition Postulate

Angle Addition Postulate:

If D is in the interior of $\angle ABC$, then $m\angle$ ____ + $m\angle$ ____ = $m\angle$ ____

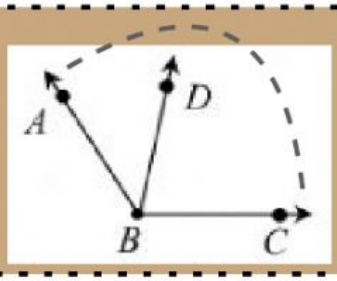


Example 1:
If $m\angle ABD = 48$ and $m\angle DBC = 78$, find $m\angle ABC$

$m\angle$ ____ + $m\angle$ ____ = $m\angle$ ____

____ + ____ = $m\angle$ ____

____ = $m\angle$ ____

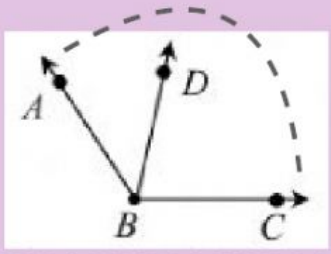


Example 2:
If $m\angle DBC = 74$ and $m\angle ABC = 119$, find $m\angle ABD$

$m\angle$ ____ + $m\angle$ ____ = $m\angle$ ____

$m\angle$ ____ + ____ = ____

$m\angle$ ____ = ____



Example 3:
If $m\angle ABC = 141, m\angle ABD = 13x + 4, m\angle DBC = 10x - 1$

Find x:

$m\angle$ ____ + $m\angle$ ____ = $m\angle$ ____

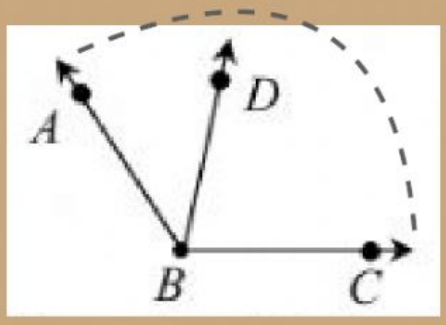
_____ + _____ = _____

_____ = _____

_____ = _____

_____ = _____

_____ = _____



Find $m\angle ABD$

$m\angle ABD =$ _____

$m\angle ABD =$ _____

$m\angle ABD =$ _____

$m\angle ABD =$ _____

Find $m\angle DBC$

$m\angle DBC =$ _____

$m\angle DBC =$ _____

$m\angle DBC =$ _____

$m\angle DBC =$ _____