

Given:

\overline{CN} bisects $\angle MNB$

1. Find the measure of each angle:

a. $\angle MNC$

20°

b. $\angle XNM$

110°

2. Name a pair of complementary angles

One possible answer:

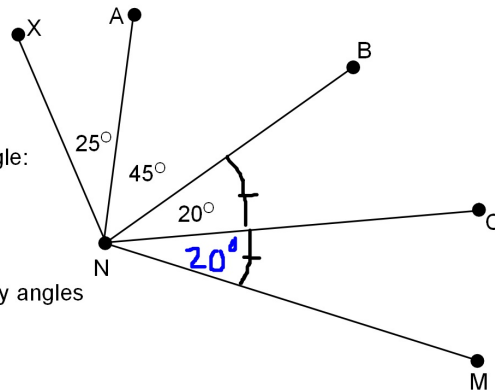
Angles XNB and BNC

3. Name an acute angle.

one answer is Angle XNA

4. Name an obtuse angle.

Angle XNM



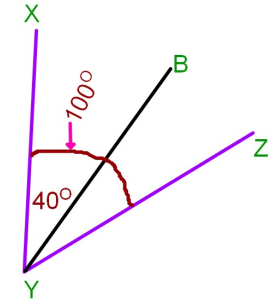
Point B is on the interior of $\angle XYZ$

$m\angle XYZ = 100^\circ$ and $m\angle XYB$ is 40° ,

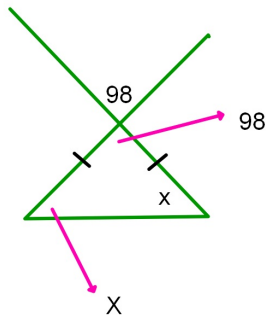
Draw a diagram and label it.

find the measure of $\angle BYZ$.

$$100^\circ - 40^\circ = 60^\circ$$



Find the value of x .



Vertical Angles
Theorem:
Vertical angles are
congruent.

$$180 = x + x + 98$$

$$180 = 2x + 98$$

$$82 = 2x$$

$$41 = x$$

Theorem:

A statement that is proven to be true. You use postulates, rules, definitions, and other facts to prove theorems true.

Once a theorem is proven to be true it can be used to prove other theorems.