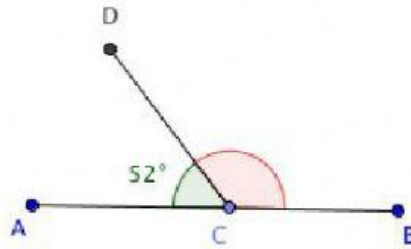4.MD.7 Additive Angles

I can solve for the missing angle when angles are combined to make a new angle.

I will use addition or subtraction to solve for the missing angle.

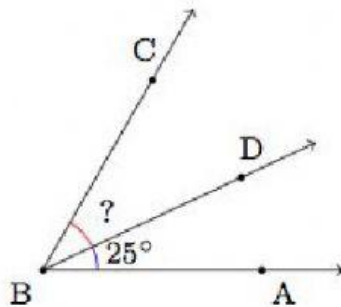Solve for each missing angle and put your answer in the box.

1- In the diagram below, what is the measure of ∠DCB if ∠ACB is 180°?

∠DCB=

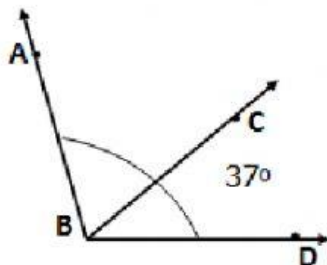2- Look below. ∠ABC is 60°.   What is ∠DBC?

∠DCB=
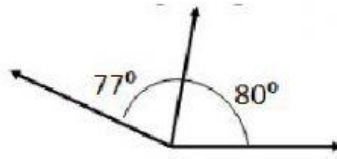

3- Look at the diagram below. ∠ABD measures 105°. How many degrees is ∠ABC?
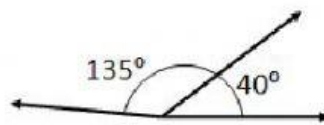
∠ABC=

4- When the angles below are combined, what is the measurement of the new angle?

New angle=

77⁰   80⁰

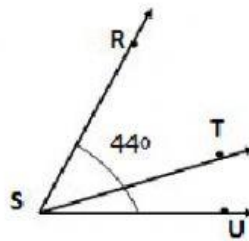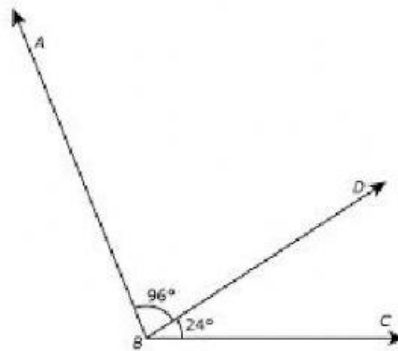5- What is the measurement of the angle formed when the angles below are combined?

New angle=

135⁰   40⁰

6- ∠RSU measures 60°, and ∠RST measures 44°. What does ∠TSU measure?

∠TSU =

R

44⁰   T

S

U

7- What is the measurement of ∠ABC?

∠ABC=

A

D

96⁰

24⁰

B   C
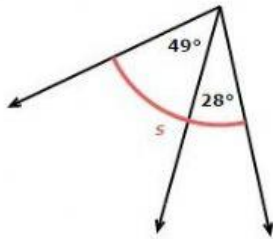
8- The angle below is a right angle (90°). How much does x measure?

x=

75°

x
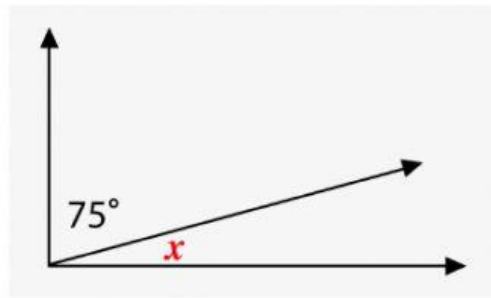
9-s is the value of two angles combined. What is the value of s?

s=

49°

28°

s

10- This entire angle measures 65°. One of the small angles that is part of the whole angle measures 20°. How much does x° measure?

x=

65°

X°

20°