

1] Point K is on line segment AB. Point K bisects AB,  $AK=6X-10$  and  $KB=2X+10$ .

Draw the picture and find everything. Circle all answers!

2] Two angles are complementary. The smaller of the two is  $7X$  and the larger of the two is  $11X + 20$ .

Draw the picture and find everything. Circle all answers!

3] Two vertical angles have the measures  $9X-70$  and  $2X$ .

Draw the picture and find everything. Circle all answers!

4] Line AB and line CD are parallel and cut by transversal AD.

Two alternate exterior angles are  $5X-20$  and  $2X+40$

Draw the picture and find everything. Circle all answers!

5] Ray BD bisects angle ABC. Angle ABD =  $5X-25$  and angle DBC= $2X+15$ .

Draw the picture and find everything. Circle all answers!

6] In pentagon ABCDE:  $\angle A=X$ ,  $\angle B=2X$ ,  $\angle C=3X$ ,  $\angle D=4X$ ,  $\angle E=5X$

Draw the picture and find the measure of each angle in pentagon ABCDE.

7] Two adjacent angles are  $9X$  and  $11X$ . The angle they make is 145 degrees.

Draw the picture and find everything. Circle all answers!

8] Line ST and line UW are parallel and cut by transversal SW.

The same side interior angles are  $5X+20$  and  $2X+40$

Draw the picture and find everything. Circle all answers!

9] Two angles are supplementary. The larger of the two is  $6X-30$  and the smaller of the two is  $2X + 40$ .

Draw the picture and find everything. Circle all answers!

10] Two angles are supplementary and congruent.

Draw the picture and find everything. Circle all answers!