

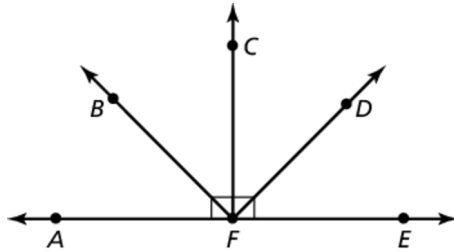
1.5 Puzzle Time

Why Shouldn't You Tell A Pigeon A Secret? Because It ...

Write the letter of each answer in the box containing the exercise number.

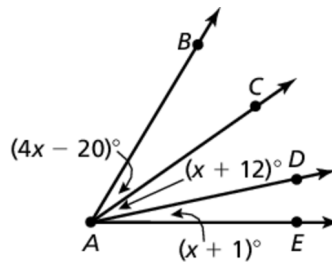
Use the diagram to identify an angle with the given classification.

1. right angle
2. obtuse angle
3. straight angle
4. acute angle



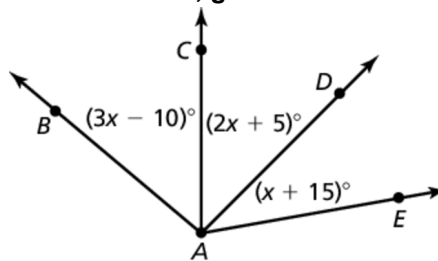
Use the diagram to solve for the angle measurement, given that $\angle BAE = 59^\circ$.

5. $\angle BAC$
6. $\angle CAD$
7. $\angle DAE$



Use the diagram to solve for the angle measurement, given that $\angle BAE = 130^\circ$.

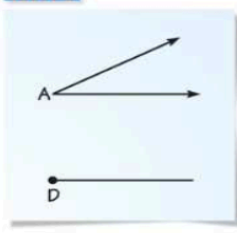
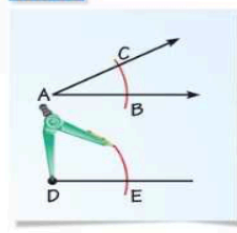
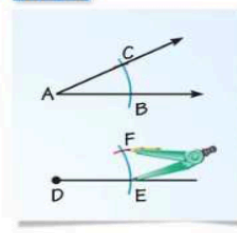
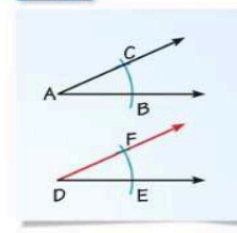
8. $\angle BAC$
9. $\angle CAD$
10. $\angle DAE$



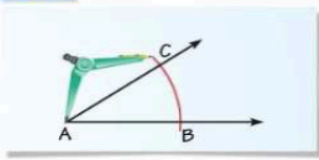
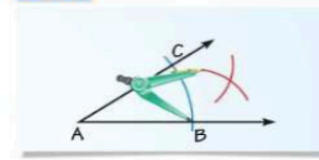
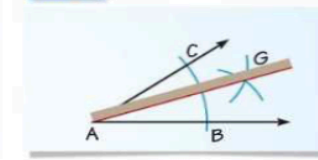
Answers

- I. 23°
- H. 40°
- A. $\angle AFC$
- D. 20°
- S. 35°
- C. 12°
- O. 17°
- R. $\angle AFD$
- U. 70°
- I. 45°
- P. 11°
- R. 24°
- T. 37°
- A. $\angle AFB$
- M. 27°
- E. $\angle AFE$
- U. 75°
- R. 50°

Steps for constructing a copy of an angle.

STEP 1	STEP 2	STEP 3	STEP 4
			
Draw a segment Draw a segment. Label a point D on the segment.	Draw arcs Draw an arc with center A . Using the same radius, draw an arc with center D .	Draw arcs Label B , C , and E . Draw an arc with radius BC and center E . Label the intersection F .	Draw a ray Draw \overrightarrow{DF} . $\angle EDF \cong \angle BAC$.

Steps for constructing an angle bisector.

STEP 1	STEP 2	STEP 3
		
Draw an arc Place the compass at A . Draw an arc that intersects both sides of the angle. Label the intersections C and B .	Draw arcs Place the compass at C . Draw an arc. Then place the compass point at B . Using the same radius, draw another arc.	Draw a ray Label the intersection G . Use a straightedge to draw a ray through A and G . \overrightarrow{AG} bisects $\angle A$.

Construct a copy of $\angle A$ and then bisect $\angle A'$ using a straight edge and a compass.

1.



2.

