

Angles 12.3

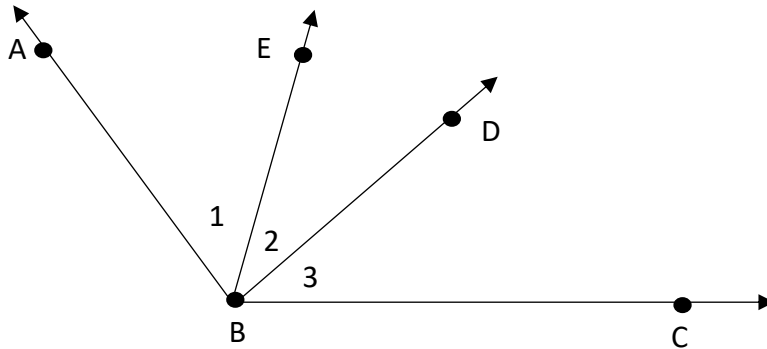


Overview of Problems



Example Set: A

Name the given angle in another way:



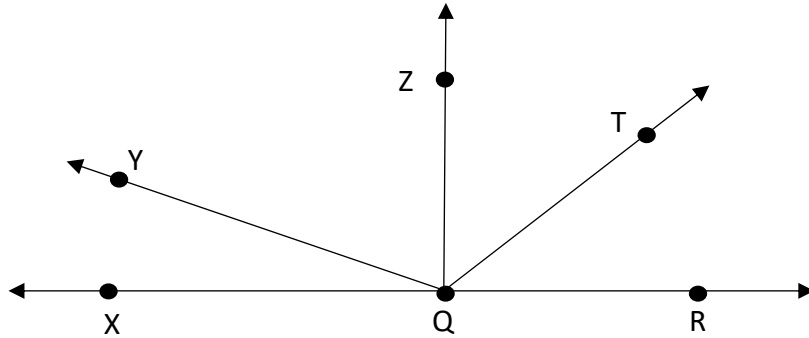
1. $\angle 1$
2. $\angle CBE$
3. $\angle ABC$
4. $\angle DBC$
5. $\angle 2$

Angles 12.3



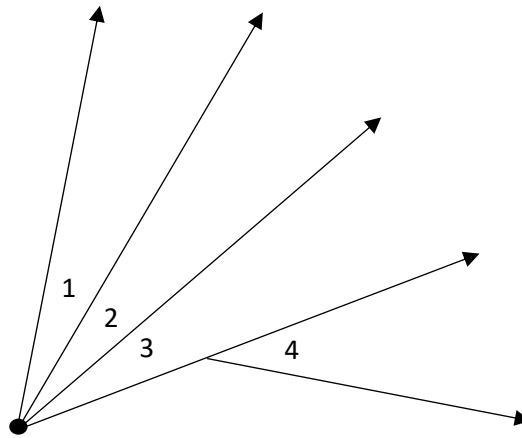
Overview of Problems

Determine what angles appears to be acute, right, straight or obtuse:



Determine if the given angles are adjacent:

- 1. $\angle 1, \angle 2$
- 2. $\angle 3, \angle 1$
- 3. $\angle 2, \angle 3$
- 4. $\angle 3, \angle 4$



Angles 12.3

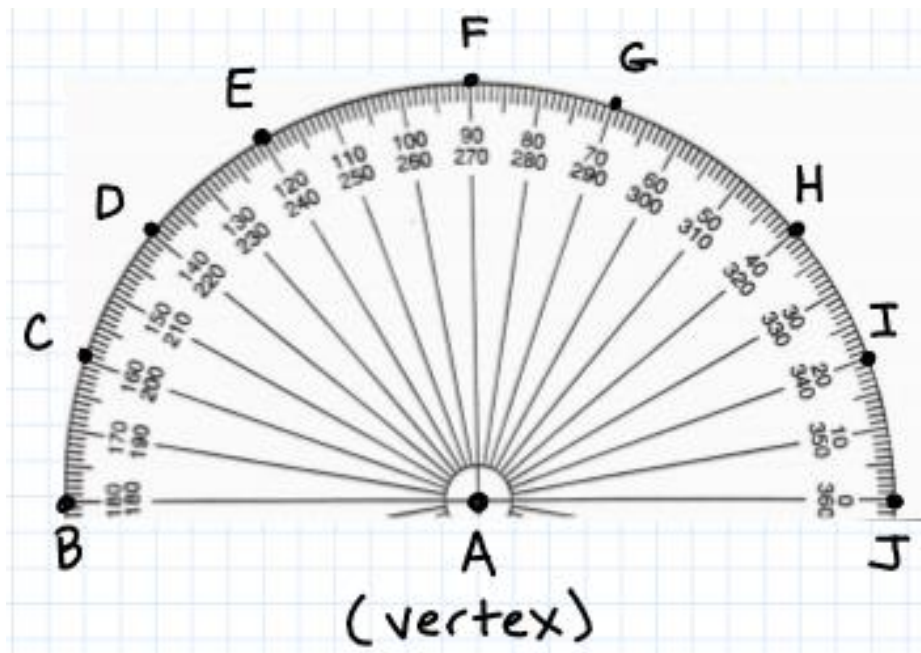


Overview of Problems

Example Set: B

Name a pair of congruent:

1. Acute angles
2. Right angles
3. Obtuse angles



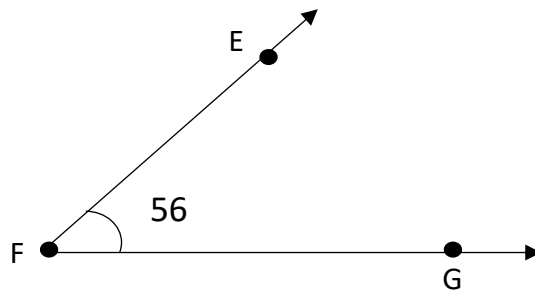
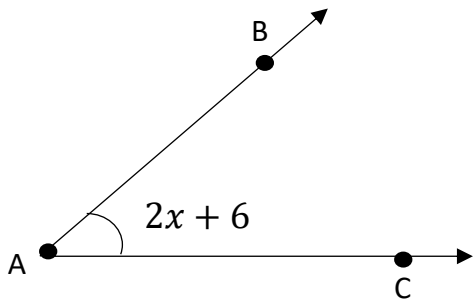
Angles 12.3



Overview of Problems

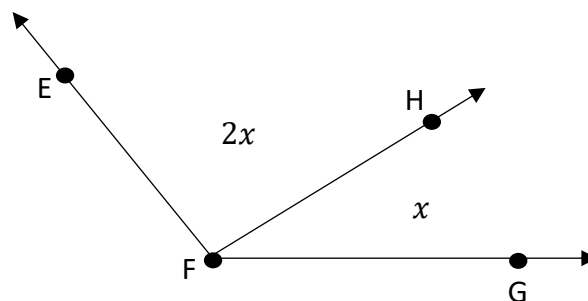
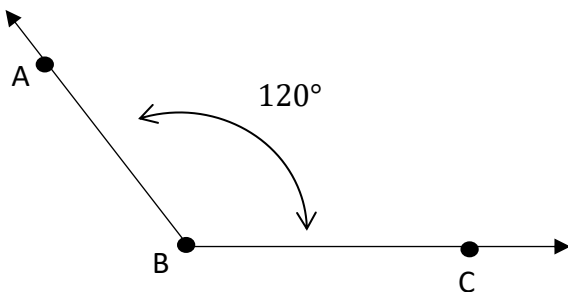
Example Set: C

Solve for x :



$$\angle BAC \cong \angle EFG$$

Find the angle of measure of $\angle HFG$



$$\angle ABC \cong \angle EFG$$

Angles 12.3

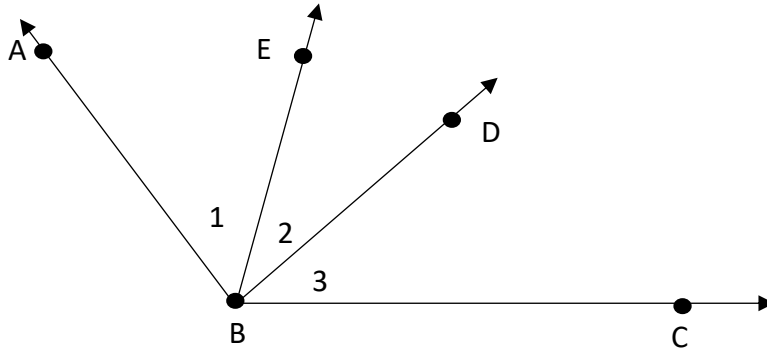


Overview of Problems



Example Set: A -**ANSWER KEY**

Name the given angle in another way:



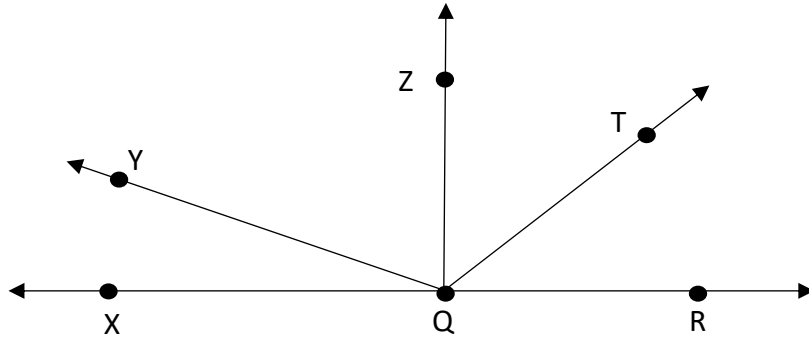
1. $\angle 1$ $\angle ABE, \angle EBA$
2. $\angle CBE$ $\angle EBC$
3. $\angle ABC$ $\angle CBA$
4. $\angle DBC$ $\angle 3, \angle CBD$
5. $\angle 2$ $\angle EBD, \angle DBE$

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Overview of Problems

Determine what angles appears to be acute, right, straight or obtuse:



Acute: $\angle XQY$, $\angle YQZ$, $\angle ZQT$, $\angle TQR$

Right: $\angle XQZ$, $\angle ZQR$

Straight: $\angle XQR$

Obtuse: $\angle XQT$, $\angle YQR$, $\angle YQT$

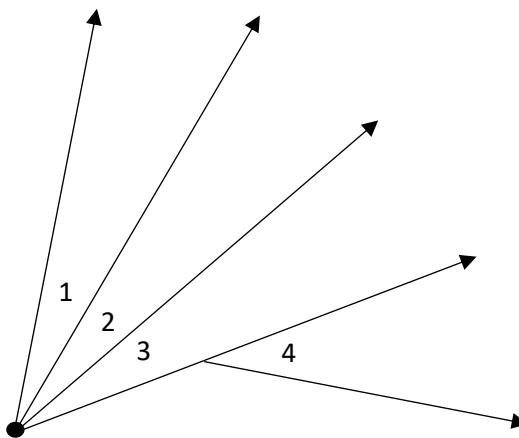
Determine if the given angles are adjacent:

1. $\angle 1, \angle 2$ yes

2. $\angle 3, \angle 1$ no

3. $\angle 2, \angle 3$ yes

4. $\angle 3, \angle 4$ no



Angles 12.3

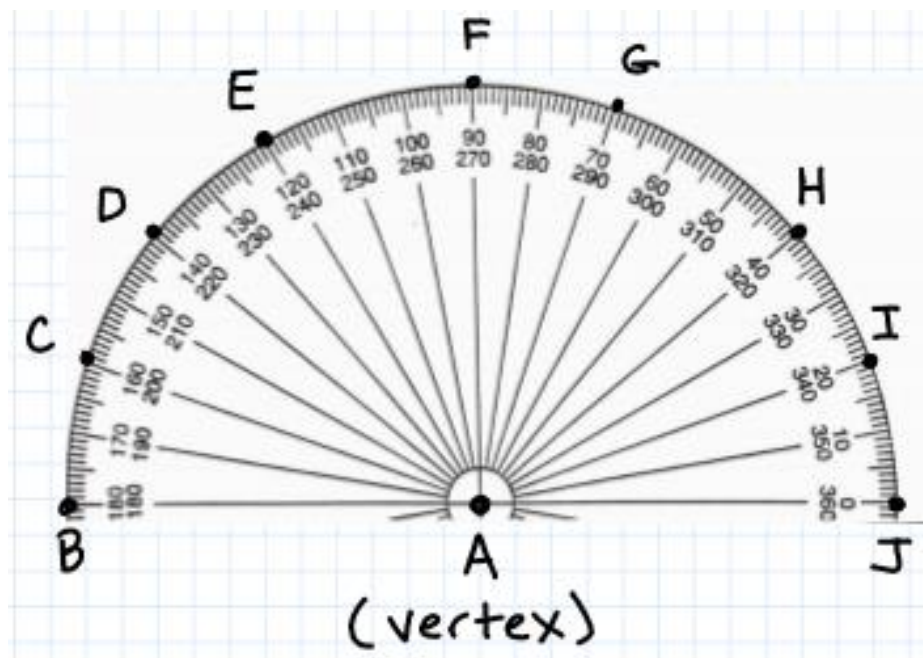


Overview of Problems

Example Set: B- **ANSWER KEY**

Name a pair of congruent:

1. Acute angles $\angle IAJ \cong \angle CAB$
2. Right angles $\angle FAB \cong \angle FAJ$
3. Obtuse angles $\angle DAJ \cong \angle BAH$



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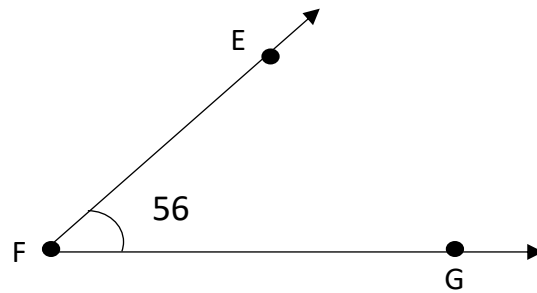
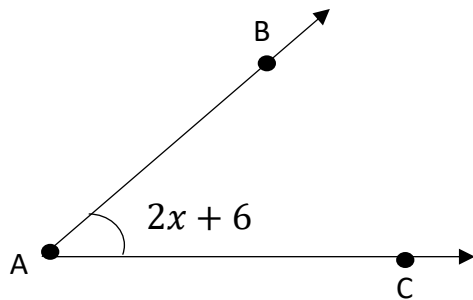
Overview of Problems



Example Set: C-ANSWER KEY

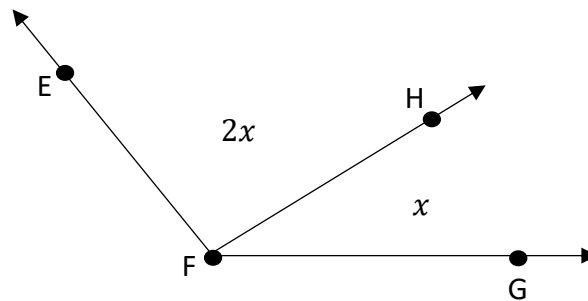
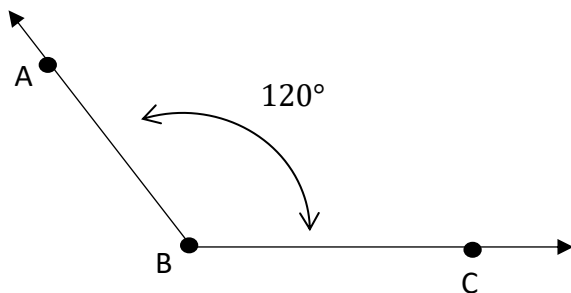
Solve for x :

$$x = 25$$



$$\angle BAC \cong \angle EFG$$

Find the angle of measure of $\angle HFG = 40^\circ$



$$\angle ABC \cong \angle EFG$$