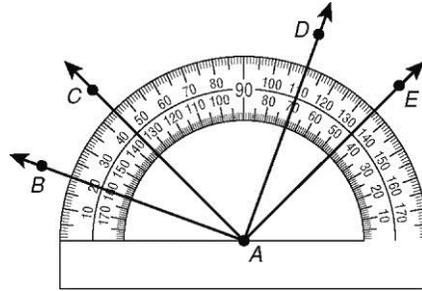


Basics of Geometry Homework

1. Name an obtuse angle. _____

2. Name two acute angles. _____



3. B is the midpoint of \overline{AC} . $AB = 8v$, and $AC = 2v + 42$. What is BC ?

F 24

H 56

G 48

J 168

4. An angle whose measure is 70° is what type of angle?

A acute

C obtuse

B right

\overline{QT}

D straight

5. \overrightarrow{GJ} bisects $\angle FGH$, $m\angle FGJ = (7x - 9)^\circ$, and $m\angle HGJ = (2x + 36)^\circ$. What is $m\angle FGH$?

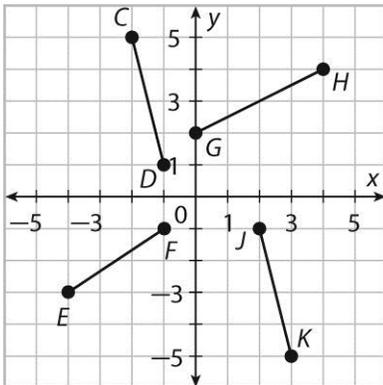
F 43°

H 86°

G 54°

J 108°

Determine whether each pair of segments have the same length.



6. \overline{CD} and \overline{EF}

7. \overline{GH} and \overline{JK}

Determine the coordinates of the midpoint for each segment. Identify the quadrant that each midpoint lies in.

8. \overline{PQ} has endpoints $P(5, -3)$ and $Q(2, 4)$.

9. \overline{RS} has endpoints $R(-2, 3)$ and $S(-8, -2)$.

Midpoint: _____

Midpoint: _____

Quadrant: _____

Quadrant: _____