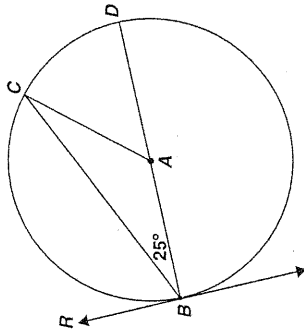


- 89 \overline{RB} is tangent to a circle, whose center is A , at point B . \overline{BD} is a diameter.

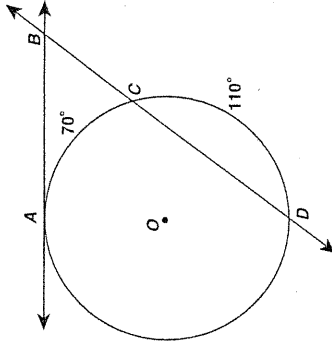


What is $m\angle CBR$?

- A 50°
- B 65°
- C 90°
- D 130°

CS020106

- 90 In the figure below, \overline{AB} is tangent to circle O at point A , secant \overline{BD} intersects circle O at points C and D , $m\angle AC = 70^\circ$, and $m\angle CD = 110^\circ$.

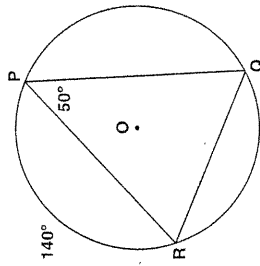


What is $m\angle ABC$?

- A 20°
- B 40°
- C 55°
- D 70°

CS010257

- 91 In the circle shown below, the measure of $\widehat{PR} = 140^\circ$ and the measure of $\angle RPQ = 50^\circ$.

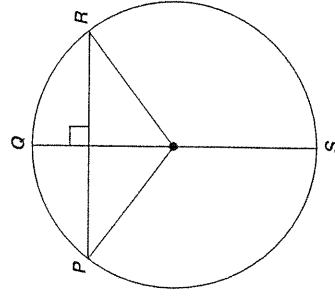


What is the measure of \widehat{PQ} ?

- A 50°
- B 60°
- C 70°
- D 120°

CS010048

- 92 \overline{QS} is a diameter of the circle below, and $\overline{QS} \perp \overline{PR}$.



If $m\widehat{PQR} = 106^\circ$, what is $m\widehat{PS}$?

- A 53°
- B 74°
- C 106°
- D 127°

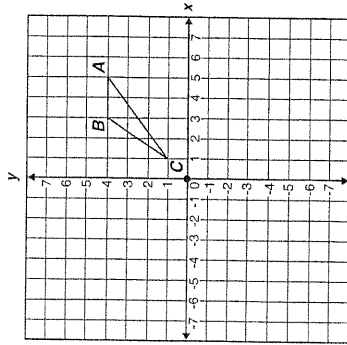
CS020187

- 93 The vertices of $\triangle ABC$ are $A(2, 1)$, $B(3, 4)$, and $C(1, 3)$. If $\triangle ABC$ is translated 1 unit down and 3 units to the left to create $\triangle DEF$, what are the coordinates of the vertices of $\triangle DEF$?

- A $D(0, 1)$, $E(1, 2)$, $F(1, 3)$
- B $D(0, -1)$, $E(0, 3)$, $F(-2, -2)$
- C $D(-2, 2)$, $E(0, 3)$, $F(-1, 0)$
- D $D(-1, 0)$, $E(0, 3)$, $F(-2, 2)$

CS020187

- 94 If triangle ABC is rotated 180 degrees about the origin, what are the coordinates of A ?



- A $(-5, -4)$
 B $(-5, 4)$
 C $(-4, 5)$
 D $(-4, -5)$

CS010006

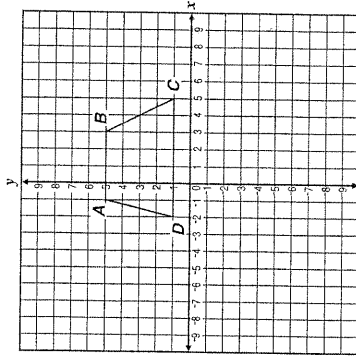
- 96 Which expression describes the translation of a point from $(-3, 4)$ to $(4, -1)$?

- A 7 units left and 5 units up
 B 7 units right and 5 units up
 C 7 units left and 5 units down
 D 7 units right and 5 units down

CS010007

- 95 Trapezoid $ABCD$ below is to be translated to trapezoid $A'B'C'D'$ by the following motion rule.

$$(x, y) \rightarrow (x + 3, y - 4)$$



What will be the coordinates of vertex C' ?

- A $(1, -3)$
 B $(2, 1)$
 C $(6, 1)$
 D $(8, -3)$

CS010008