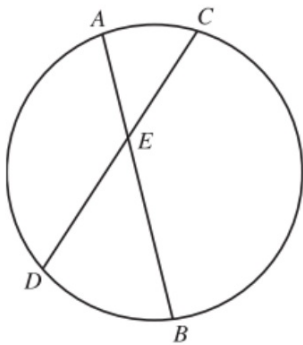


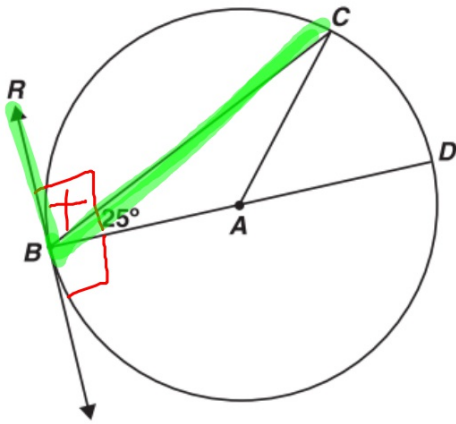
- 88 In the circle below, \overline{AB} and \overline{CD} are chords intersecting at E .



If $AE = 5$, $BE = 12$, and $CE = 6$, what is the length of \overline{DE} ?

- A 7
- B 9
- C 10
- D 13

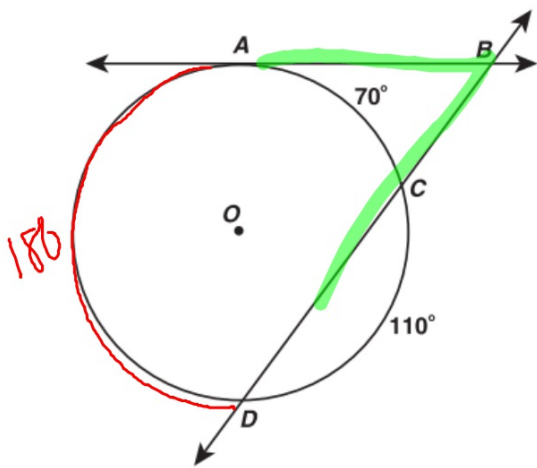
- 89 \overline{RB} is tangent to a circle, whose center is A , at point B . \overline{BD} is a diameter.



What is $m\angle CBR$?

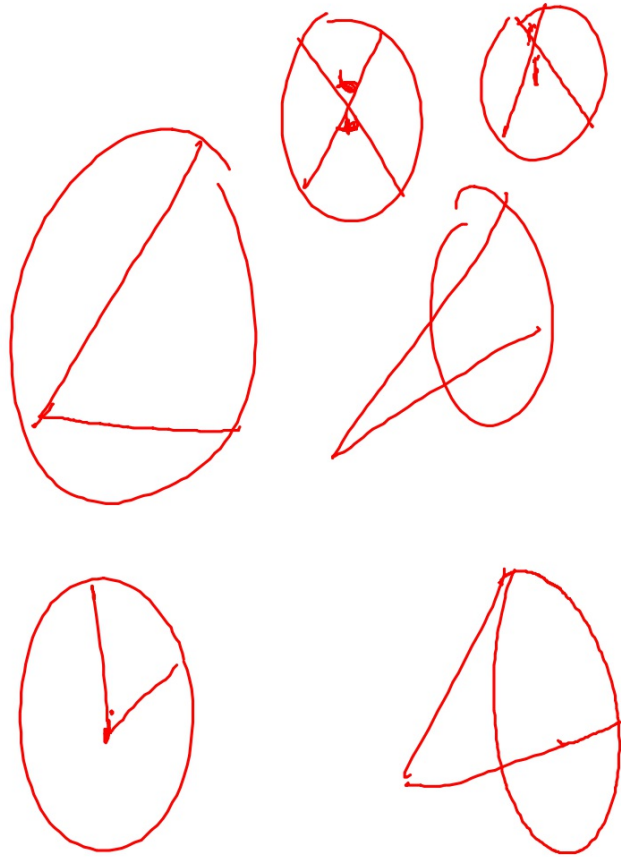
- A 50°
- B 65°**
- C 90°
- D 130°

- 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 , $m\widehat{AC} = 70^\circ$, and $m\widehat{CD} = 110^\circ$.

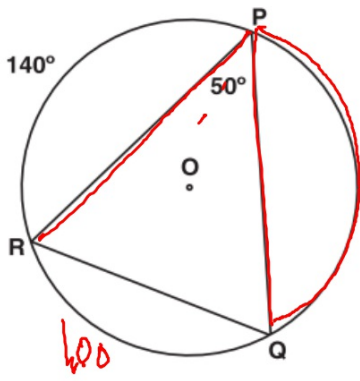


What is $m\angle ABC$?

- A 20°
- B 40°
- C 55°**
- D 70°



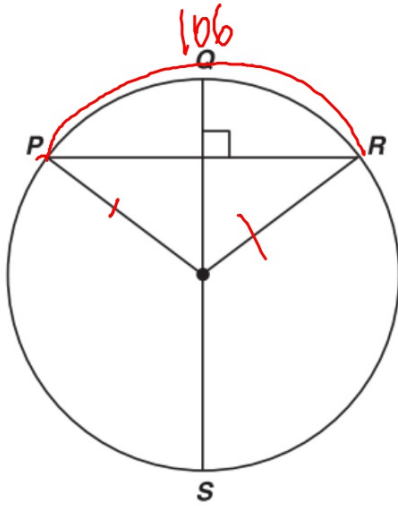
- 91 In the circle shown below, the measure of $\widehat{PR} = 140^\circ$ and the measure of $\angle RPQ = 50^\circ$.



What is the measure of \widehat{PQ} ?

- A 50°
- B 60°
- C 70°
- D 120°**

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



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

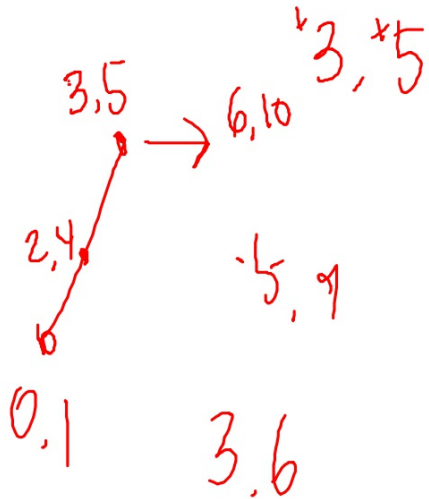
- A 53°
- B 74°
- C 106°
- D** 127°

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 $\triangle DEF$?

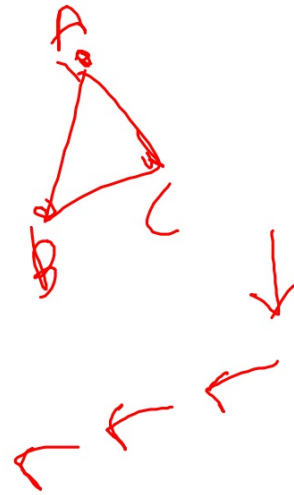
- A ~~$D(0, 1)$, $E(1, 2)$, $F(1, 3)$~~
- B ~~$D(0, -1)$, $E(0, 3)$, $F(-2, -2)$~~
- C ~~$D(-2, 2)$, $E(0, 3)$, $F(-1, 0)$~~
- D $D(-1, 0)$, $E(0, 3)$, $F(-2, 2)$

$(-3, -1)$

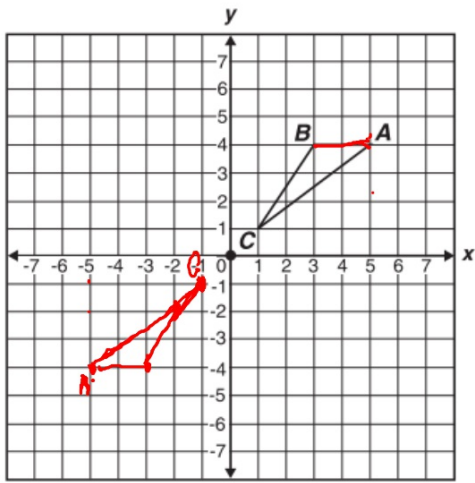
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$-3 + 2$



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

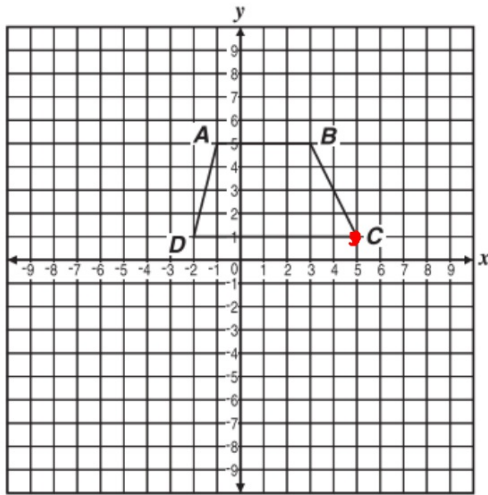


Neg
↓

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

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

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



R_x y

5, 1

What will be the coordinates of vertex C' ?

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

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

4

-1

-3

4

