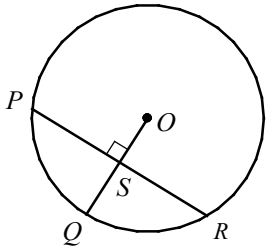
Exercises - Arcs and Chords

1



In circle O above, if the radius is 13 and $PR = 24$, what is the length of QS?

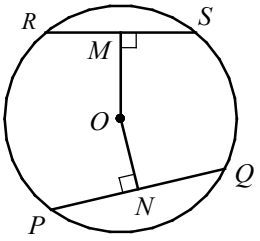
A) 6

B) 7

C) 8

D) 9

2



In the circle above, if $RS = 6$, $OM = 5$, and $ON = 4$, what is the length of PQ?

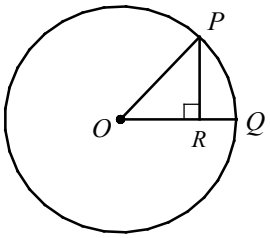
A) $4\sqrt{2}$

B) 6

C) $6\sqrt{2}$

D) $6\sqrt{3}$

3



In circle O above, the area of the circle is 9π and $PR = \sqrt{5}$. What is the length of QR?

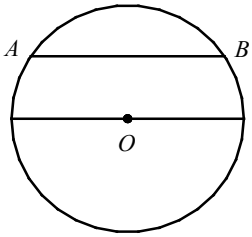
A) 1

B) $\sqrt{2}$

C) $\sqrt{3}$

D) 2

4



In the figure above, the radius of the circle is 12. If the length of chord $\overline{AB}$ is 18, what is the distance between the chord and the diameter?

A) $2\sqrt{10}$

B) $3\sqrt{7}$

C) $4\sqrt{5}$

D) $6\sqrt{2}$