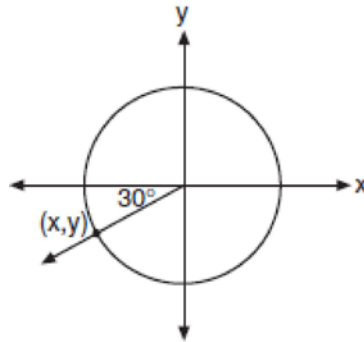


A2.A.56: Determining Trigonometric Functions 4: Know the exact and approximate values of the sine, cosine, and tangent of 0° , 30° , 45° , 60° , 90° , 180° , and 270° angles

1 In the unit circle shown in the accompanying diagram, what are the coordinates of (x,y) ?



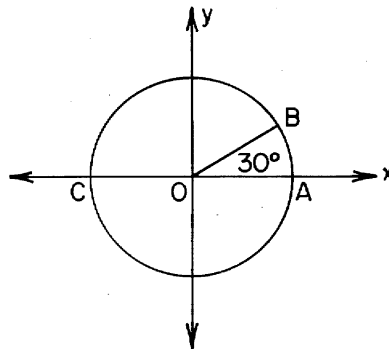
1) $\left(-\frac{\sqrt{3}}{2}, -0.5\right)$

3) $(-30, -210)$

2) $\left(-0.5, -\frac{\sqrt{3}}{2}\right)$

4) $\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$

2 In the accompanying diagram of circle O , \overline{COA} is a diameter, O is the origin, $\overline{OA} = 1$, and $m\angle BOA = 30^\circ$. What are the coordinates of B ?



1) $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$

3) $\left(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

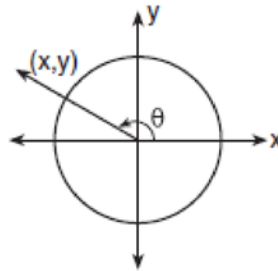
2) $\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

4) $\left(\frac{\sqrt{2}}{2}, \frac{1}{2}\right)$

A2.A.56: Determining Trigonometric Functions 4

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- 5 In the accompanying diagram of a unit circle, the ordered pair (x,y) represents the point where the terminal side of θ intersects the unit circle.



If $\theta = 150^\circ$, what is the value of x ?

1) 1

3) $-\frac{1}{2}$

2) $-\frac{\sqrt{3}}{2}$

4) $-\frac{\sqrt{2}}{2}$

A2.A.56: Determining Trigonometric Functions 4: Know the exact and approximate values of the sine, cosine, and tangent of 0° , 30° , 45° , 60° , 90° , 180° , and 270° angles**Answer Section**

1	ANS: 1	PTS: 2	REF: 010718b
2	ANS: 2	PTS: 2	REF: 068926siii
3	ANS: 3	PTS: 2	REF: 069728siii
4	ANS: 1	PTS: 2	REF: 019828siii
5	ANS: 2	PTS: 2	REF: 010226siii