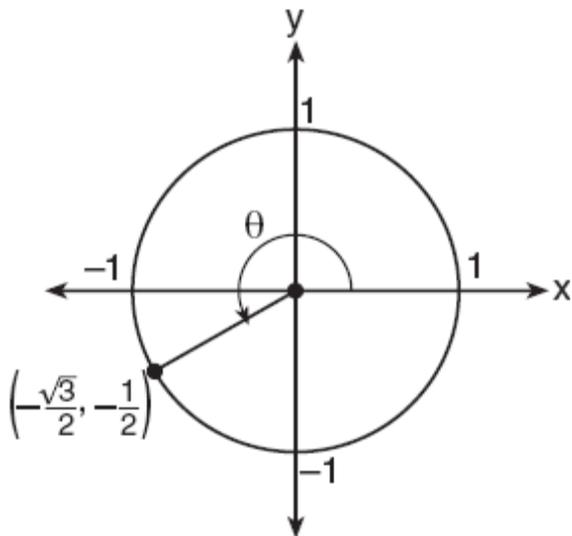


NAME: _____

A2.A.62: Find the value of trigonometric functions, if given a point on the terminal side of angle theta

1. 080510b, P.I. A2.A.62

In the accompanying diagram of a unit circle, the ordered pair $(-\frac{\sqrt{3}}{2}, -\frac{1}{2})$ represents the point where the terminal side of θ intersects the unit circle.

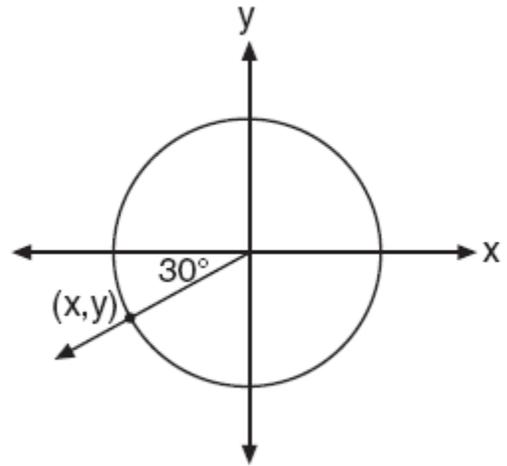


What is $m\angle\theta$?

- [A] 210 [B] 240 [C] 225 [D] 233

2. 010718b, P.I. A2.A.62

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

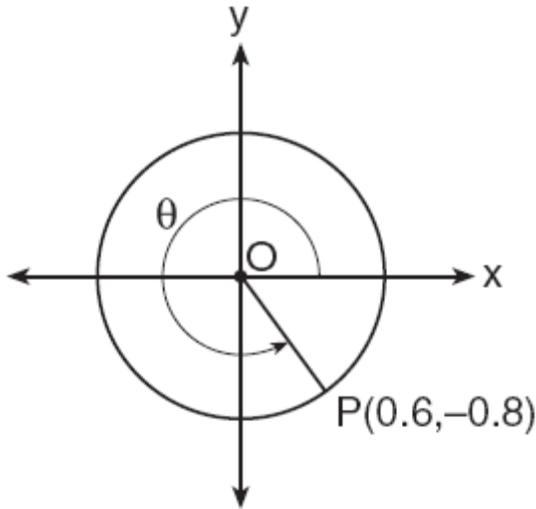


- [A] $(-30, -210)$ [B] $(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2})$
[C] $(-\frac{\sqrt{3}}{2}, -0.5)$ [D] $(-0.5, -\frac{\sqrt{3}}{2})$

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3. 010422b, P.I. A2.A.62

In the accompanying diagram, point $P(0.6, -0.8)$ is on unit circle O . What is the value of θ , to the nearest degree?



5. fall9920b, P.I. A2.A.62

The origin of a coordinate grid is labeled A . Line segment AB forms an angle of 30° with the x -axis. If $AB = 8$, the coordinates of B are:

[A] $(6, 4)$ [B] $(8 \cos 30^\circ, 8 \sin 30^\circ)$

[C] $(8 \sin 30^\circ, 8 \cos 30^\circ)$ [D] $(4, 4\sqrt{3})$

4. 010616b, P.I. A2.A.62

If θ is an angle in standard position and $P(-3, 4)$ is a point on the terminal side of θ , what is the value of $\sin \theta$?

[A] $\frac{3}{5}$ [B] $-\frac{4}{5}$ [C] $-\frac{3}{5}$ [D] $\frac{4}{5}$

A2.A.62: Find the value of trigonometric functions, if given a point on the terminal side of angle theta

[1] A

[2] C

[2] 307, and appropriate work is shown.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] Appropriate work is shown to find the value of the reference angle, but no further correct work is shown.

or [1] 307, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[3] incorrect procedure.

[4] D

[5] B