Use special right triangles to find the coordinates of the point of intersection of the angle 330° and the unit circle. Express your answer in fractions and radicals when necessary.

$$[A] \left(-\frac{\sqrt{3}}{2}, \frac{1}{2}\right) \qquad [B] \left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$$
$$[C] \left(\frac{2\sqrt{3}}{3}, -2\right) \qquad [D] \left(-\frac{2\sqrt{3}}{3}, 2\right)$$

2. Use special right triangles to find the coordinates of the point of intersection of the angle -150° and the unit circle. Express your answer in fractions and radicals when necessary.

$$[A] \left(-\frac{2\sqrt{3}}{3}, -2\right) \quad [B] \left(-\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$$
$$[C] \left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right) \quad [D] \left(\frac{2\sqrt{3}}{3}, 2\right)$$

- 3. Use special right triangles to find the coordinates of the point of intersection of the angle 240° and the unit circle. Express your answer in fractions and radicals when necessary.
- 4. Use special right triangles to find the coordinates of the point of intersection of the angle -225° and the unit circle. Express your answer in fractions and radicals when necessary.

- 5. Use special right triangles to find the coordinates of the point of intersection of the angle -315° and the unit circle. Express your answer in fractions and radicals when necessary.
- Use special right triangles to find the coordinates of the point of intersection of the angle 45° and the unit circle. Round your answer to the nearest hundredth.
- Use special right triangles to find the coordinates of the point of intersection of the angle 135° and the unit circle. Round your answer to the nearest hundredth.
- 8. Use special right triangles to find the coordinates of the point of intersection of the angle -300° and the unit circle. Round your answer to the nearest hundredth.
- Find the coordinates of the point of intersection with the unit circle of an angle of 610°. Round coordinates to the nearest thousandth.
- 10. Compare the quantity in Column A with the quantity in Column B. An angle of 420° intersects the unit circle at (x, y). Column A Column B

x

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.
- [C] The two quantities are equal.

y

[D] The relationship cannot be determined on the basis of the information supplied.

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[2] B

