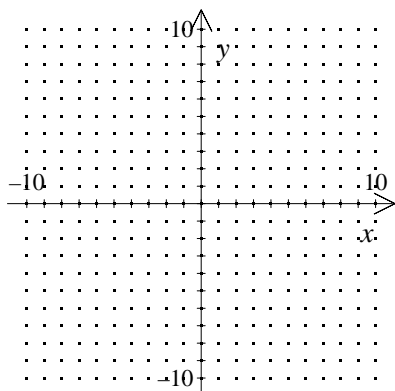


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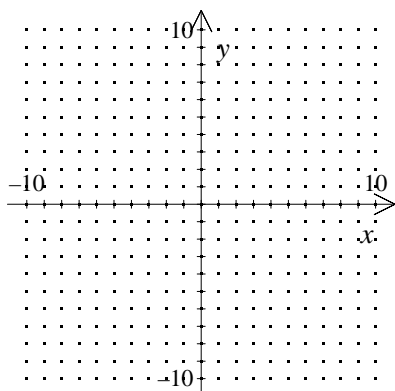
P.I. A2.A.60: Sketch the unit circle and represent angles in standard position

1. Sketch the angle 119° in standard position.



[1] _____

2. Sketch the angle 329° in standard position.



[2] _____

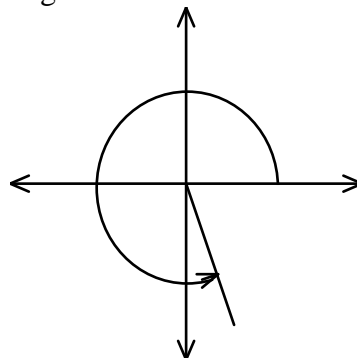
3. Name the angle in standard position that is coterminal with -28° , also in standard position. Find the smallest such angle in the *opposite* direction of the given angle.

[3] _____

4. Name the angle in standard position that is coterminal with -694° , also in standard position. Find the smallest such angle in the *opposite* direction of the given angle.

[4] _____

5. This is a sketch in standard position of which angle?



- [A] 900° [B] -920°
[C] 1040° [D] -800°

[5] _____

6. In navigation, a bearing is the measure of the angle of direction in a clockwise direction from due north. Find the positive angle in standard position for a ship's bearing of 220° .

[6] _____

7. Find the mean of these angles. For each, use the positive coterminal angle in standard position.
 40° , -315° , 65° , -280° , -250°

[7] _____

8. Which angle is coterminal with $-\frac{\pi}{4}$?

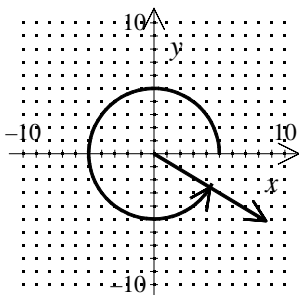
- [A] 4π [B] $\frac{\pi}{4}$ [C] $\frac{3\pi}{4}$ [D] $\frac{7\pi}{4}$

[8] _____

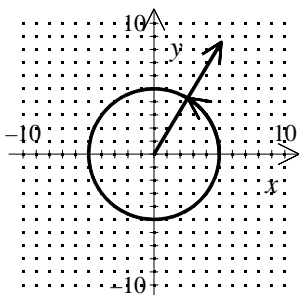
NAME: _____

9. Sketch the angle 329° in standard position.

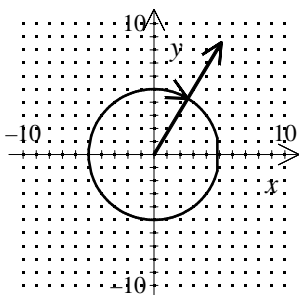
[A]



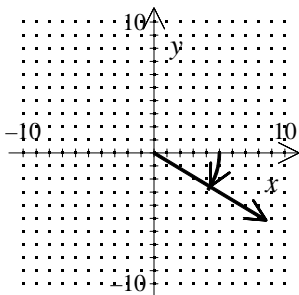
[B]



[C]



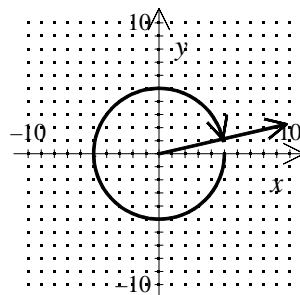
[D]



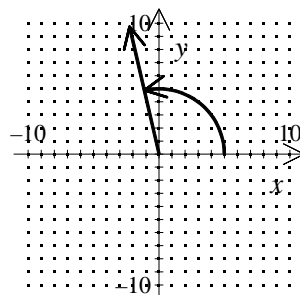
[9] _____

10. Sketch the angle -347° in standard position.

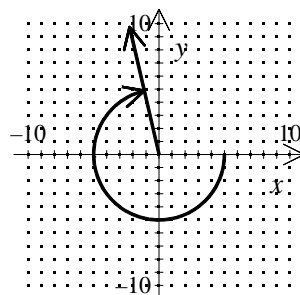
[A]



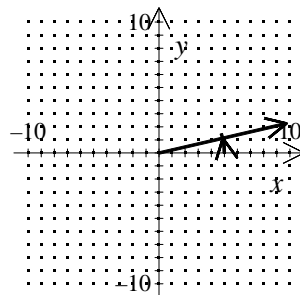
[B]



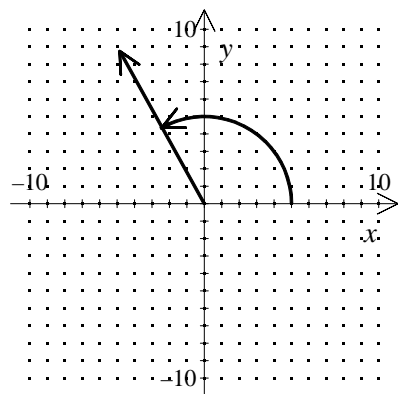
[C]



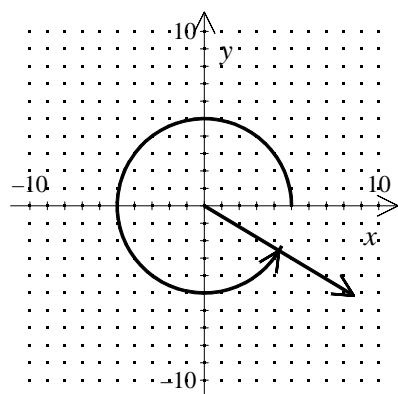
[D]



[10] _____



[1] _____



[2] _____

[3] 332° _____

[4] 26° _____

[5] D _____

[6] 230° _____

[7] 68° _____

[8] D _____

[9] A _____

[10] A _____