Name: ____ Period: __________ Date: ______________

Angles and the Unit Circle Assignment

Sketch angles in standard position:

1. $-135°$
2. $225°$
3. $-225°$
4. $405°$
5. $-300°$
6. $-45°$

Find the measure of an angle between $0°$ and $360°$ coterminal with each given angle:

7. $-30°$
8. $390°$
9. $-225°$
10. $780°$
11. $-405°$
12. $-600°$

Use the unit circle to determine exact values for the Sine and Cosine of each given angle:

13. $0°$
14. $-30°$
15. $45°$
16. $135°$
17. $-60°$
18. $-210°$

19. **Which of the following angles is not coterminal with any of the other three?**

a. $135°$

b. $855°$

c. $-575°$

d. $-225°$

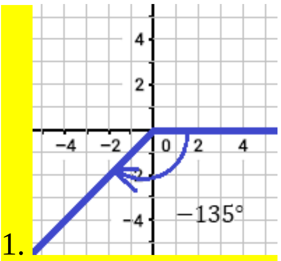
Name: ____ Period: __________ Date: _______________

Angles and the Unit Circle Assignment

Answers:

Sketch angles in standard position:

1. −135°
2. 225°
3. −225°
4. 405°
5. −300°
6. −45°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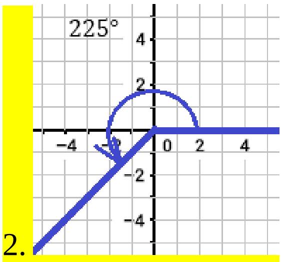
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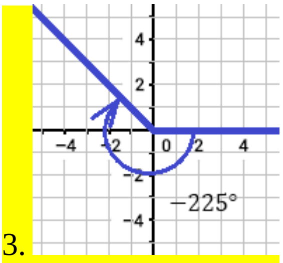
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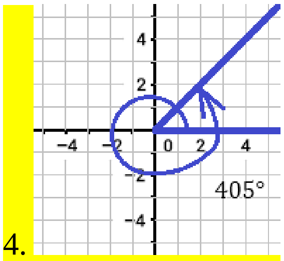
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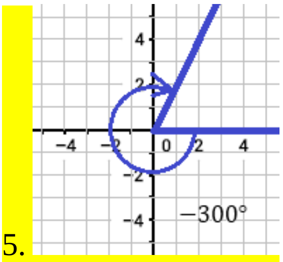
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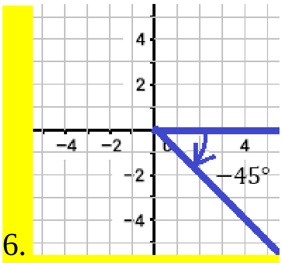
6.

Find the measure of an angle between 0° and 360° coterminal with each given angle:

7. −30° (330°)
8. 390° (30°)
9. −225° (135°)
10. 780° (60°)
11. −405° (315°)
12. −600° (120°)

Name: ____ Period: __________ Date: _______________

Exploring Exponential Models Assignment

Use the unit circle to determine exact values for the Sine and Cosine of each given angle:

13. $0°$ $(\sin 0° = 0, \cos 0° = 1)$

14. $-30°$ $\left(\sin -30° = -\frac{1}{2}, \cos -30° = \frac{\sqrt{3}}{2}\right)$

15. $45°$ $\left(\sin 45° = \frac{\sqrt{2}}{2}, \cos 45° = \frac{\sqrt{2}}{2}\right)$

16. $135°$ $\left(\sin 135° = \frac{\sqrt{2}}{2}, \cos 135° = -\frac{\sqrt{2}}{2}\right)$

17. $-60°$ $\left(\sin -60° = -\frac{\sqrt{3}}{2}, \cos -60° = \frac{1}{2}\right)$

18. $-210°$ $\left(\sin -210° = \frac{1}{2}, \cos -210° = -\frac{\sqrt{3}}{2}\right)$

19. **Which of the following angles is not coterminal with any of the other three?**

a. $135°$

b. $855°$

c. $-575°$

d. $-225°$