Algebra 2YD Name_____ ID: 1

Angles in Radians Mixed Practice (Day 1 & 2)

Date_____ Period____

State the quadrant in which the terminal side of each angle lies.

1) $\frac{7\pi}{18}$

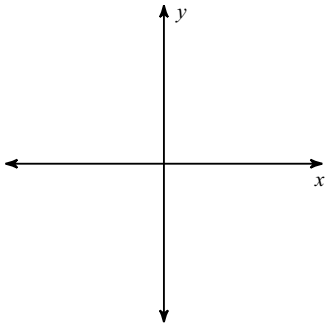
2) $-\frac{8\pi}{9}$

3) $\frac{11\pi}{18}$

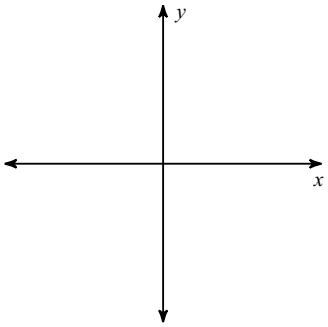
4) $-\frac{9\pi}{4}$

Draw an angle with the given measure in standard position.

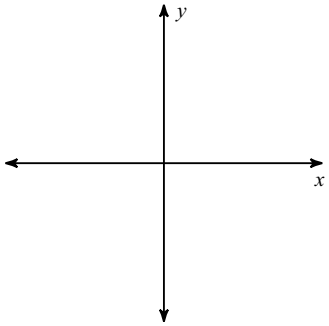
5) $\frac{17\pi}{12}$



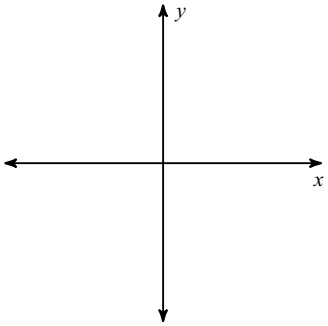
6) $-\frac{11\pi}{6}$



7) $-\frac{8\pi}{9}$

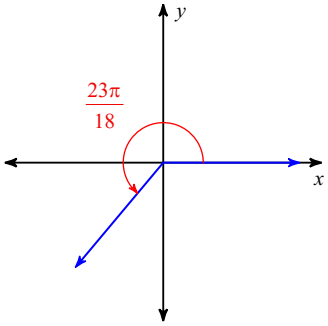


8) $\frac{11\pi}{18}$



Find the reference angle.

9)



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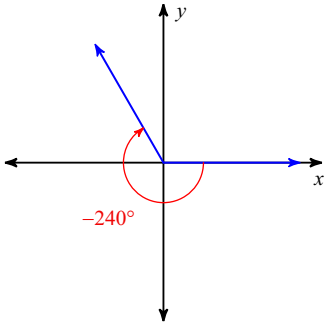

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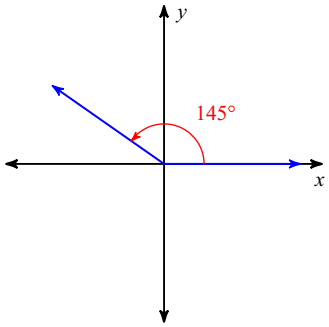

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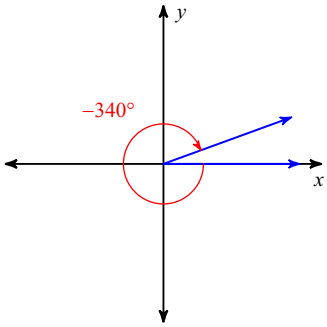

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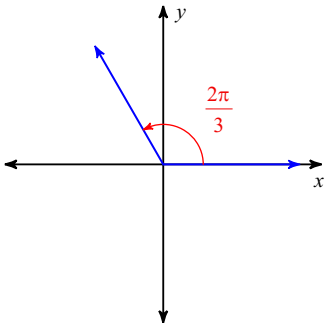

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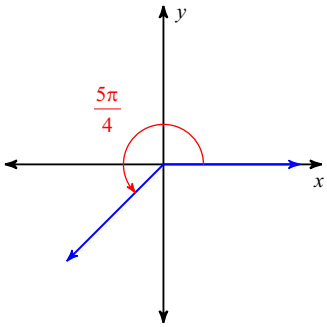


Review: Convert each degree measure into radians and each radian measure into degrees.

15) $\frac{\pi}{4}$

16) 330°

17) 240°

18) $-\frac{13\pi}{12}$

19) 225°

20) $-\frac{\pi}{3}$

Review: Find a positive and a negative coterminal angle for each given angle.

21) 405°

22) 585°

23) −165°

24) $\frac{43\pi}{12}$

25) $\frac{\pi}{12}$

26) $\frac{16\pi}{9}$

Answers to Angles in Radians Mixed Practice (Day 1 & 2) (ID: 1)

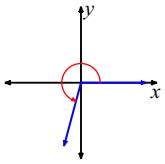
1) I

2) III

3) II

4) IV

5)



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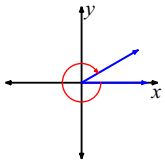

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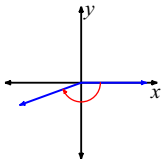
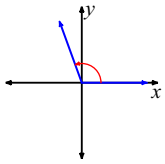


8)



9) $\frac{5\pi}{18}$

10) 60°

11) 35°

12) 20°

13) $\frac{\pi}{3}$

14) $\frac{\pi}{4}$

15) 45°

16) $\frac{11\pi}{6}$

17) $\frac{4\pi}{3}$

18) -195°

19) $\frac{5\pi}{4}$

20) -60°

21) 45° and –315°

22) 225° and –135°

23) 195° and –525°

24) $\frac{19\pi}{12}$ and $-\frac{5\pi}{12}$

25) $\frac{25\pi}{12}$ and $-\frac{23\pi}{12}$

26) $\frac{34\pi}{9}$ and $-\frac{2\pi}{9}$