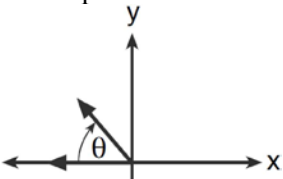
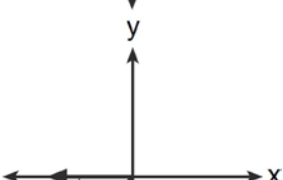
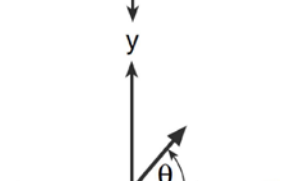
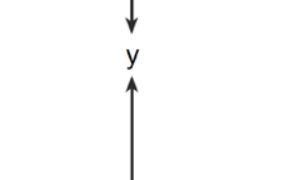
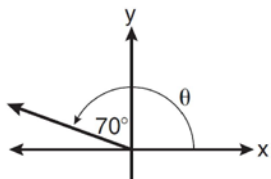
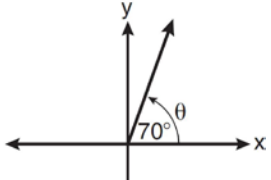
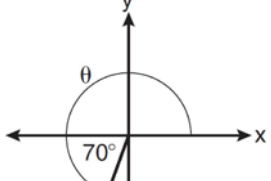
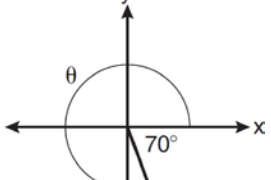


F.TF.A.1: Unit Circle

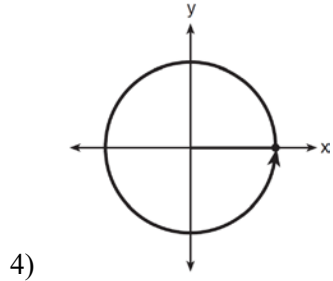
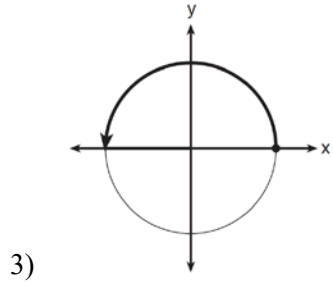
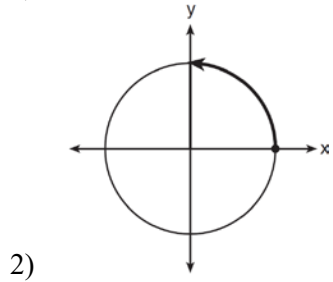
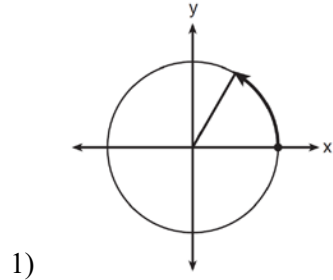
1 If $m\angle\theta = -50$, which diagram represents θ drawn in standard position?

- 1) 
- 2) 
- 3) 
- 4) 

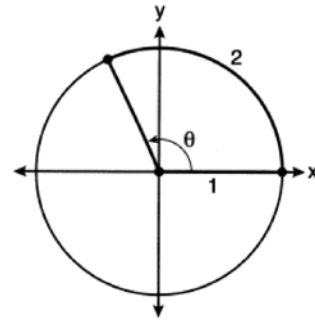
2 In which graph is θ coterminal with an angle of -70° ?

- 1) 
- 2) 
- 3) 
- 4) 

- 3 Which diagram shows an angle rotation of 1 radian on the unit circle?



- 4 An angle, θ , is rotated counterclockwise on the unit circle, with its terminal side in the second quadrant, as shown in the diagram below.



Which value represents the radian measure of angle θ ?

- 1) 1
2) 2
3) 65.4
4) 114.6
- 5 Which angle is coterminal with an angle of 125° ?
- 1) -125°
2) -235°
3) 235°
4) 425°
- 6 Which angle has the same terminal side as an angle of 155° ?
- 1) -205°
2) -155°
3) 25°
4) 335°

- 7 Which angle does *not* terminate in Quadrant IV when drawn on a unit circle in standard position?
- 1) -300°
 - 2) -50°
 - 3) 280°
 - 4) 1030°
- 8 The terminal side of an angle measuring $\frac{4\pi}{5}$ radians lies in Quadrant
- 1) I
 - 2) II
 - 3) III
 - 4) IV
- 9 An angle that measures $\frac{5\pi}{6}$ radians is drawn in standard position. In which quadrant does the terminal side of the angle lie?
- 10 An angle that measures $\frac{5\pi}{3}$ radians is drawn in standard position. In which quadrant does the terminal side of the angle lie?
- 11 An angle with measure $\frac{7\pi}{4}$ radians is in standard position. In which quadrant does its terminal side lie?

**F.TF.A.1: Unit Circle
Answer Section**

1 ANS: 4 REF: 061206a2

2 ANS: 4 REF: 081005a2

3 ANS: 1 REF: 081616a11

4 ANS: 2 REF: 062219a11

5 ANS: 2

Coterminal angles differ by multiples of 360° . $125 - 360 = -235$.

REF: 080417b

6 ANS: 1

$-205^\circ + 360^\circ = 155^\circ$

REF: 061614a2

7 ANS: 1

$-300^\circ + 360^\circ = 60^\circ$, which terminates in Quadrant I.

REF: 011602a2

8 ANS: 2 REF: 061502a2

9 ANS:

II

REF: 069602s111

10 ANS:

IV

REF: 080005s111

11 ANS:

IV

REF: 089305s111