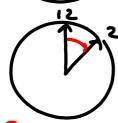
## Homework 7-3





2 : <u>y</u> 360

- 1. π/10
- 2. -3π
- 3.  $7\pi/18$
- 4. 420°
- 5. -540°
- 6. 105°
- 7. 1.71 rad
- 8. -3.46 rad
- 9. 4.71 rad

- 10. 83.1°
- 11. 435.4°
- 12. -206.3°
- 13-15 see next slide
- 16. minute hand: 360°, 2π

hour hand:  $60^{\circ}$ ,  $\pi/3$ 

- 17. π
- 18. 0, π
- 19. 0, π
- 20.  $\pi/2$ ,  $3\pi/2$

Alaebra 2 Homework 7-3

Aug 13-1:33 PM

Name: AU

- 1.  $18^{\circ} \left( \frac{71}{180} \right) = \frac{11}{10}$
- 2. -540°/±) -271
- 3. 70° (TT) = TT

Convert the radian measures to degrees, rounded to the negrest degree

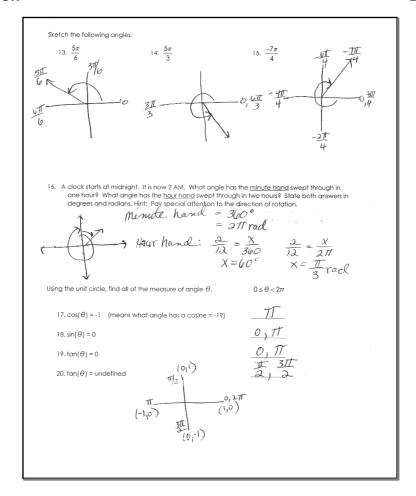
- $4. \frac{7\pi}{3} (\frac{180}{4}) = 420^{\circ}$
- $5. -3\pi/180 = -540^{\circ}$
- 6.  $\frac{7\pi}{12} \left( \frac{80}{17} \right) = 105^{\circ}$

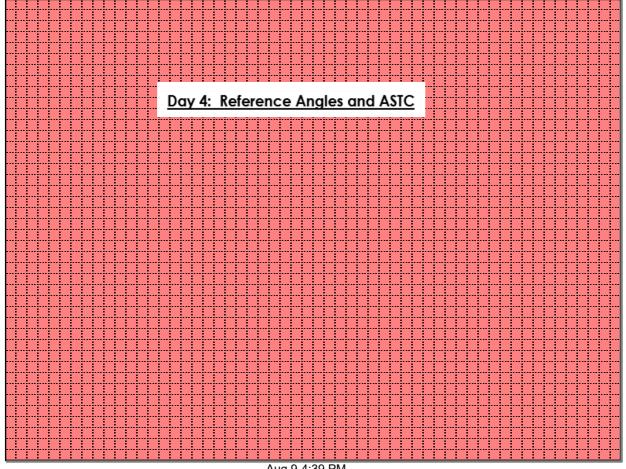
State each angle to the nearest hundredth of a radian. Do  $\underline{\text{not}}$  leave your answer in terms of  $\pi$ 

- 7. 98° (#6) = 1.71 rad
- 8.  $-198^{\circ}(\frac{1}{180}) = -3$ , +6 rad
- 9. 270° (IE) = 4.71 rad

Convert the radian measures to the nearest tenth of a degree.

- $10.1.45 \left(\frac{180}{11}\right) = 83.1^{\circ}$
- 11.7.6 (180) = 435, 40
- $12. -3.6 \left(\frac{180}{11}\right) = -206.3^{\circ}$





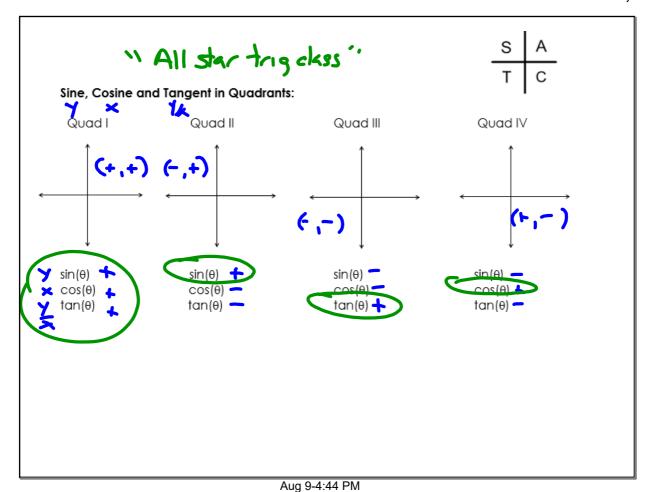
Warm-Up:

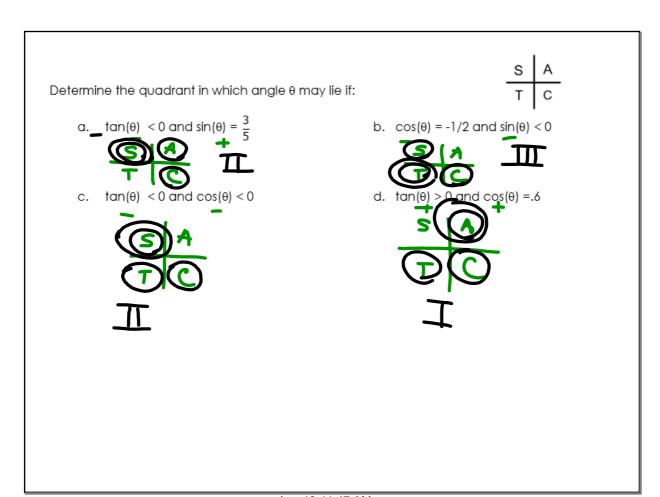
- a. Convert the angle to radians or degrees.
- b. Sketch the angle in standard position, and determine the quadrant in which the angle lies.
- c. Find the measures of a positive and negative angle that are coterminal with the given angle.

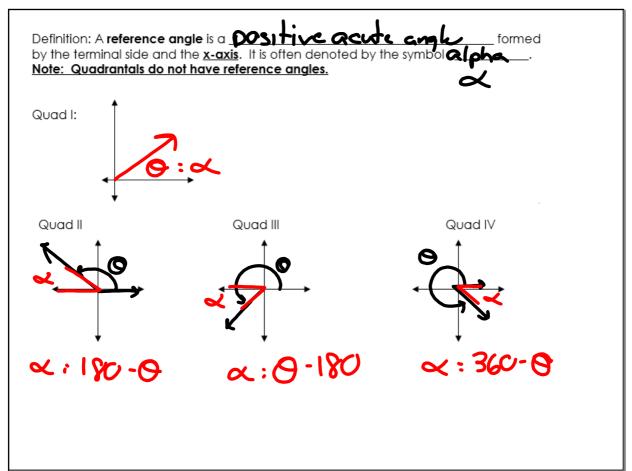
1. 50°

2.  $\frac{-4\pi}{3}$ 

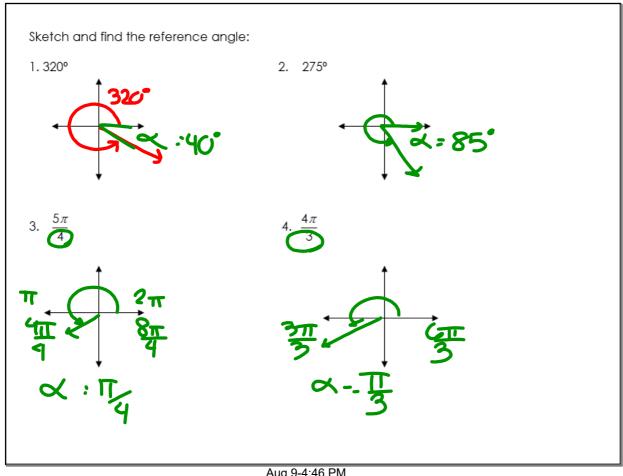
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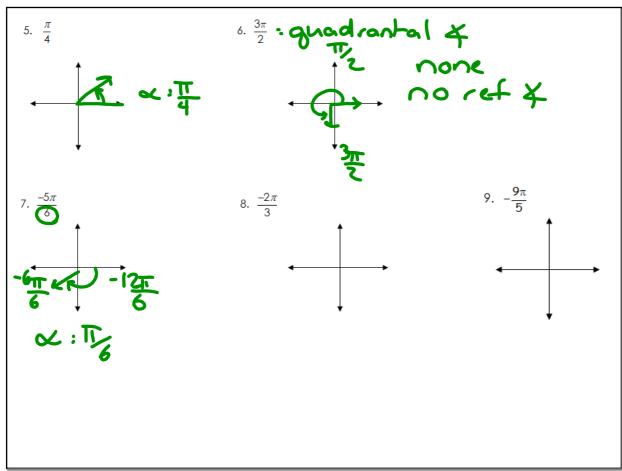




Aug 9-4:45 PM



Aug 9-4:46 PM



Aug 9-4:46 PM

