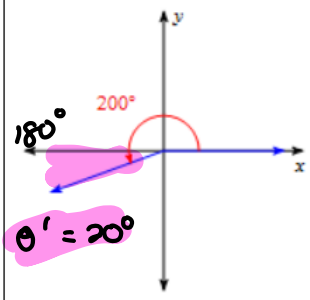
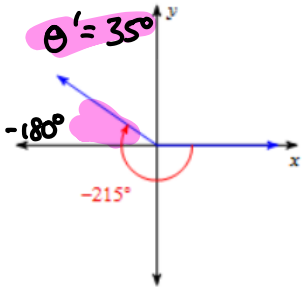
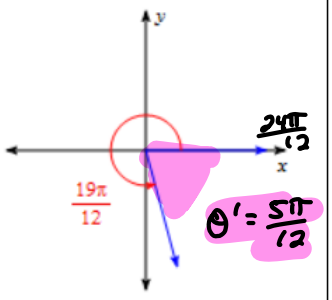
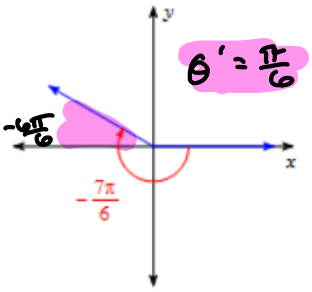
Trigonometry – Reference & Special Angles Hw Section 16.4

Find the reference angle.

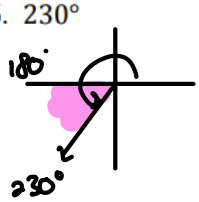
1. 

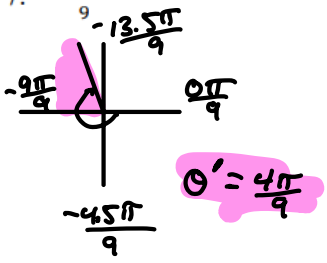
2. 

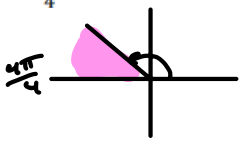
3. 

4. 

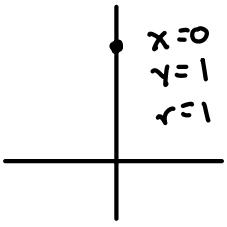
5. $-130°$ 

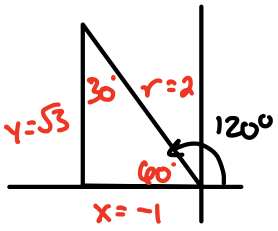
6. $230°$ 

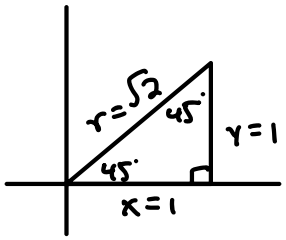
7. $-\frac{13\pi}{9}$ 

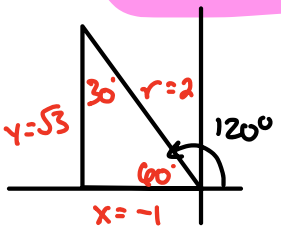
8. $\frac{3\pi}{4}$ 

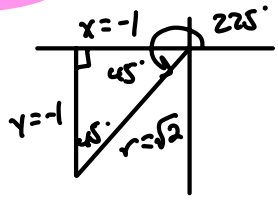
Find the exact value.

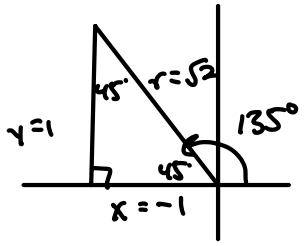
9. $\sin 90° = \frac{y}{r} = \frac{1}{1} = 1$ 

10. $\cos 120° = \frac{x}{r} = \frac{-1}{2}$ 

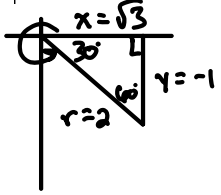
11. $\tan 45° = \frac{y}{x} = \frac{1}{1} = 1$ 

12. $\tan 120° = \frac{y}{x} = \frac{\sqrt{3}}{-1}$ $\tan 120° = -\sqrt{3}$ 

13. $\cos 225° = \frac{x}{r} = \frac{-1}{\sqrt{2}}$ 

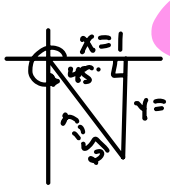
14. $\sin 135° = \frac{y}{r} = \frac{1}{\sqrt{2}}$ 

15. $\sin 330° = \frac{y}{r} = \frac{-1}{2}$

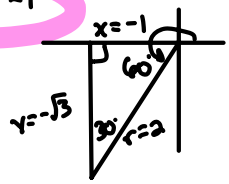


16. $\tan 315° = \frac{y}{x} = \frac{-1}{1}$

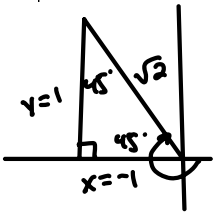
$\tan 315° = -1$



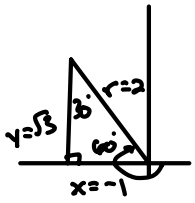
17. $\cos 240° = \frac{x}{r} = \frac{-1}{2}$



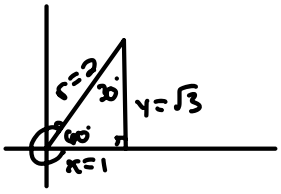
18. $\sin(-225°) = \frac{y}{r} = \frac{1}{\sqrt{2}}$



19. $\cos(-240°) = \frac{x}{r} = \frac{-1}{2}$



20. $\tan(-300°) = \frac{y}{x} = \frac{\sqrt{3}}{1} = \sqrt{3}$

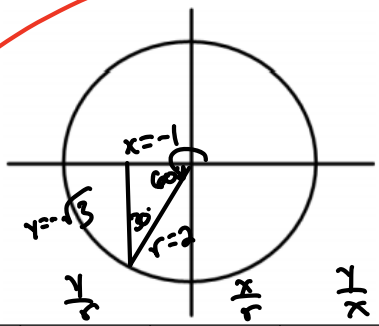


57. Fill in the table below.

$\frac{240°}{1} \cdot \frac{\pi \text{ RAD}}{180°} = \frac{24\pi}{10} = \frac{4\pi}{3}$

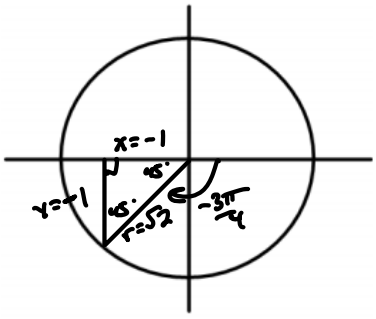
2π

$240° - 360°$ $\qquad$ $\frac{4\pi}{3} - \frac{6\pi}{3}$



degrees	radians	sin θ	cos θ	tan θ		- degree	- radian
240°	$\frac{4\pi}{3}$	$\frac{-\sqrt{3}}{2}$	$\frac{-1}{2}$	$\sqrt{3}$		-120°	$\frac{-2\pi}{3}$

58. Fill in the table below.



$-\frac{3\pi}{4} \cdot \frac{180°}{\pi} = -135°$

degrees	radians	sin θ	cos θ	tan θ		- degree	- radian
225°	$\frac{5\pi}{4}$	$\frac{-1}{\sqrt{2}}$	$\frac{-1}{\sqrt{2}}$	1		-135°	$-\frac{3\pi}{4}$

$-135° + 360°$ $\qquad$ $\frac{y}{r}$ $\qquad$ $\frac{x}{r}$ $\qquad$ $\frac{y}{x}$

$-\frac{3\pi}{4} + \frac{8\pi}{4}$