

## 6-3 Unit Circle and Reciprocal Trig Functions

Period \_\_\_\_\_

**(6-3a) Find the exact value of each trigonometric ratio.**

1)  $\cos \frac{11\pi}{6}$

2)  $\sin \frac{3\pi}{2}$

3)  $\sin \frac{11\pi}{6}$

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

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

6)  $\sec \pi$

7)  $\cot \frac{\pi}{3}$

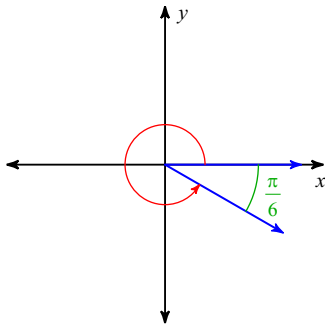
8)  $\csc \frac{\pi}{6}$

9)  $\cos 210^\circ$

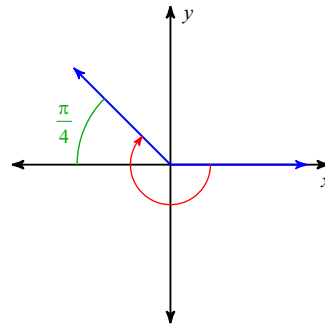
10)  $\tan 45^\circ$

(6-2a, 6-2b) Find the reference angle. Then, from the given angle, find one positive and one negative coterminal angle.

11)

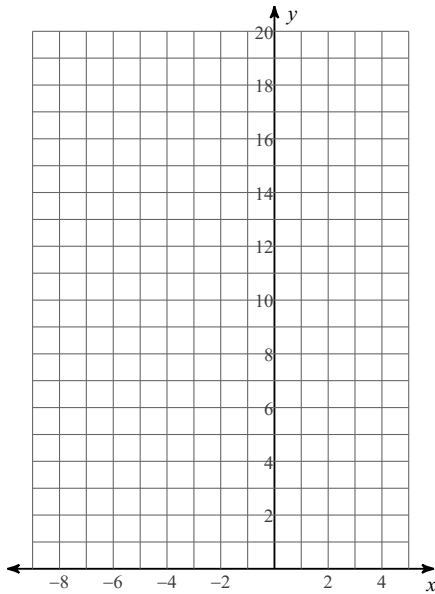


12)



(4-3a, 5-4a) Sketch the graph of each function.

13)  $f(x) = 2^{x+2} + 1$



14)  $f(x) = \log_5(x - 1) + 5$

