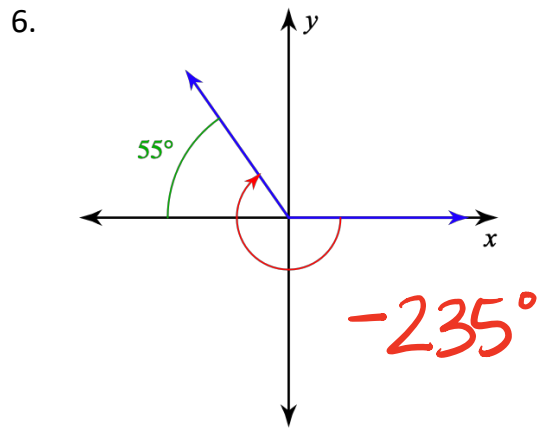
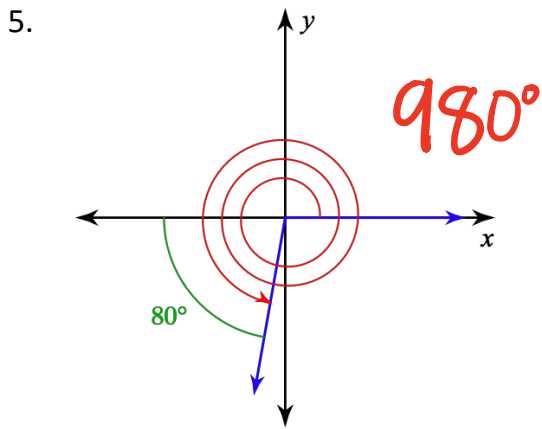
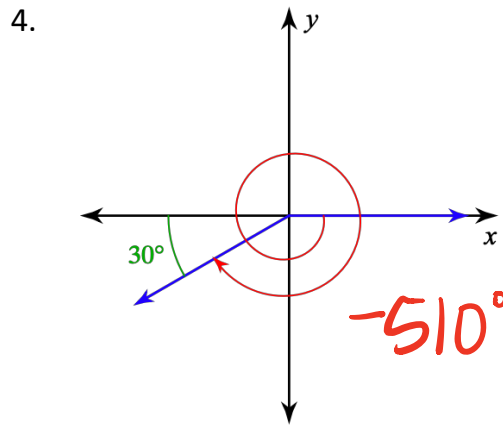
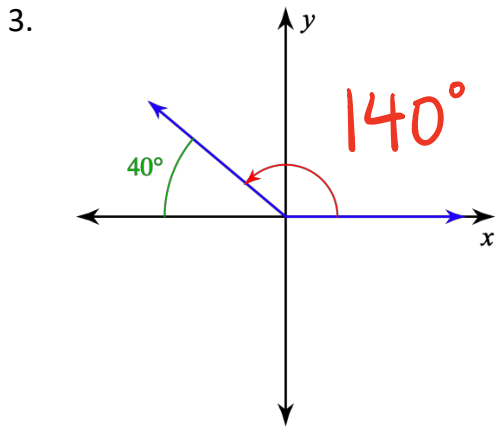
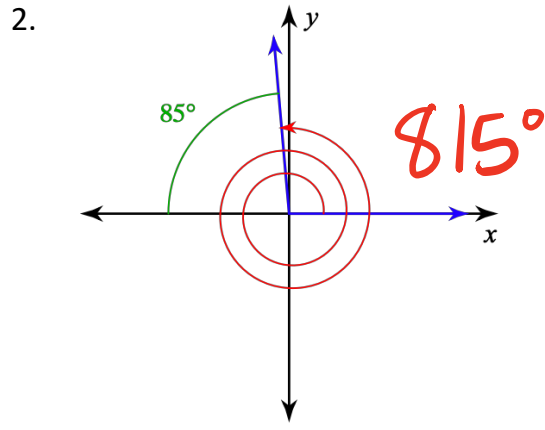
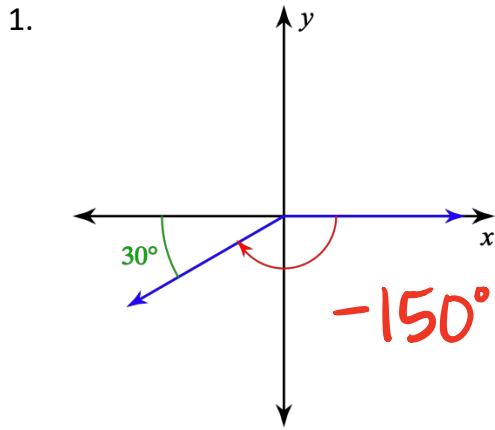


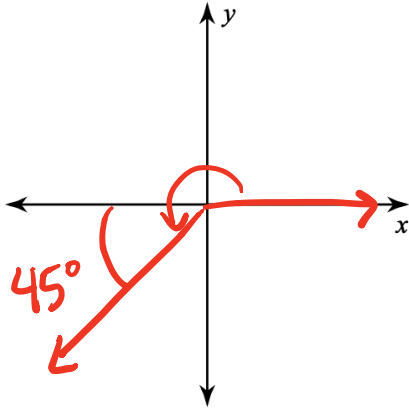
9.2 HW: Angles and the Unit Circle

Find the measure of each angle.

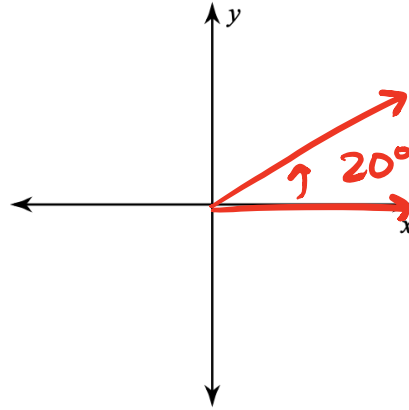


Draw an angle with the given measure in standard position. Be sure to indicate the direction of rotation and label the angle closest to the x-axis.

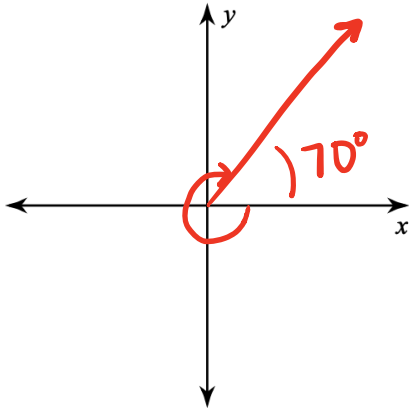
7.  $235^\circ$



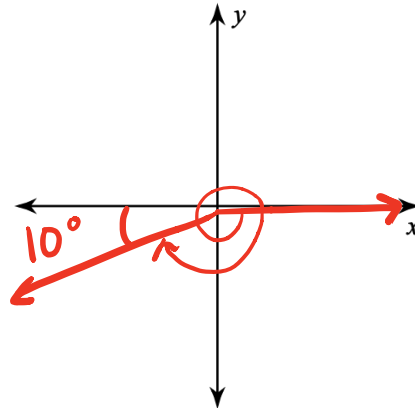
8.  $20^\circ$



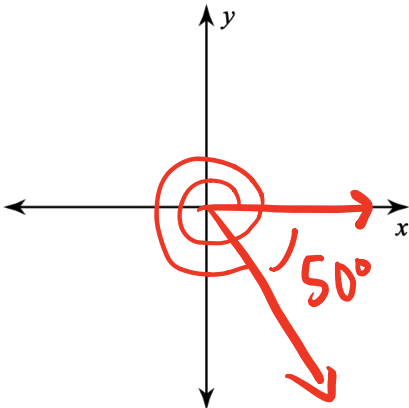
9.  $-290^\circ$



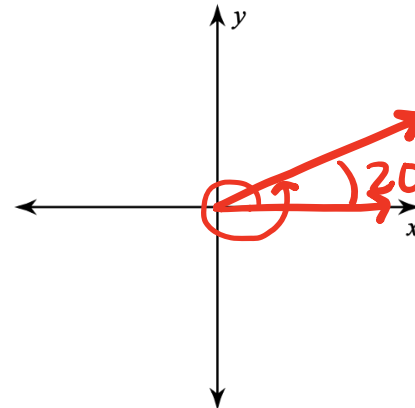
10.  $-530^\circ$



11.  $670^\circ$



12.  $380^\circ$



State if the given angles are coterminal.

13.  $95^\circ, -625^\circ$   
Yes

15.  $125^\circ, -415^\circ$   
No

14.  $360^\circ, -720^\circ$   
Yes

16.  $310^\circ, 850^\circ$   
No

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

17.  $160^\circ$   
ex:  $520^\circ, -200^\circ$

18.  $345^\circ$   
ex:  $705^\circ, -15^\circ$

19.  $600^\circ$   
ex:  $240^\circ, -120^\circ$

20.  $30^\circ$   
ex:  $390^\circ, -330^\circ$

Evaluate the following. Give the exact value.

21.  $\cos 405^\circ$   
 $\frac{\sqrt{2}}{2}$

22.  $\cos 540^\circ$   
-1

23.  $\tan 570^\circ$   
 $\frac{\sqrt{3}}{3}$

24.  $\sin 225^\circ$   
 $-\frac{\sqrt{2}}{2}$

25.  $\tan -315^\circ$   
1

26.  $\tan -240^\circ$   
 $-\sqrt{3}$

27.  $\sin -180^\circ$   
0

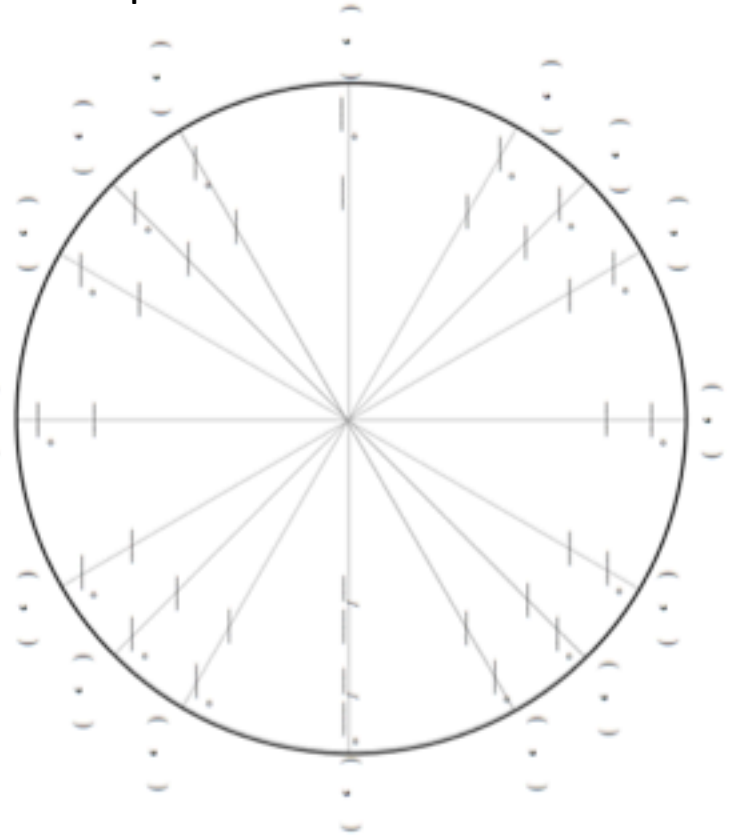
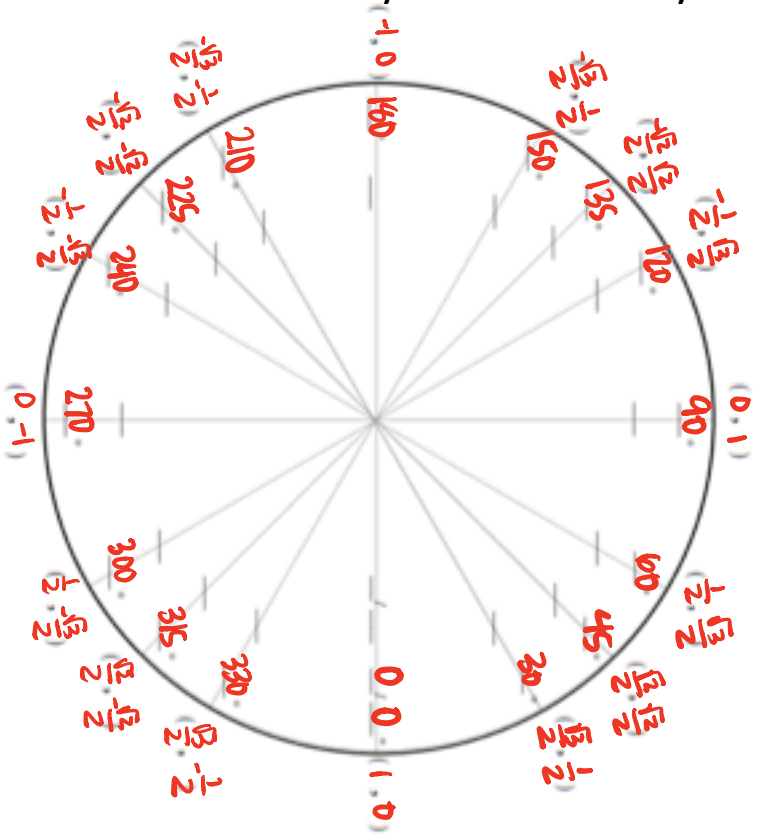
28.  $\cos -120^\circ$   
 $-\frac{1}{2}$

29.  $\sin 0^\circ$   
0

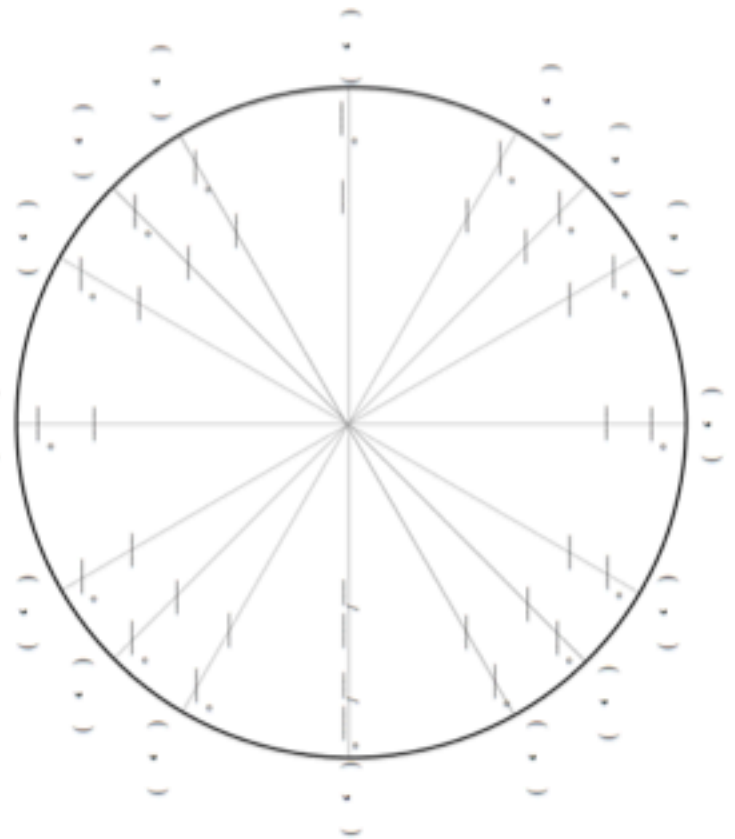
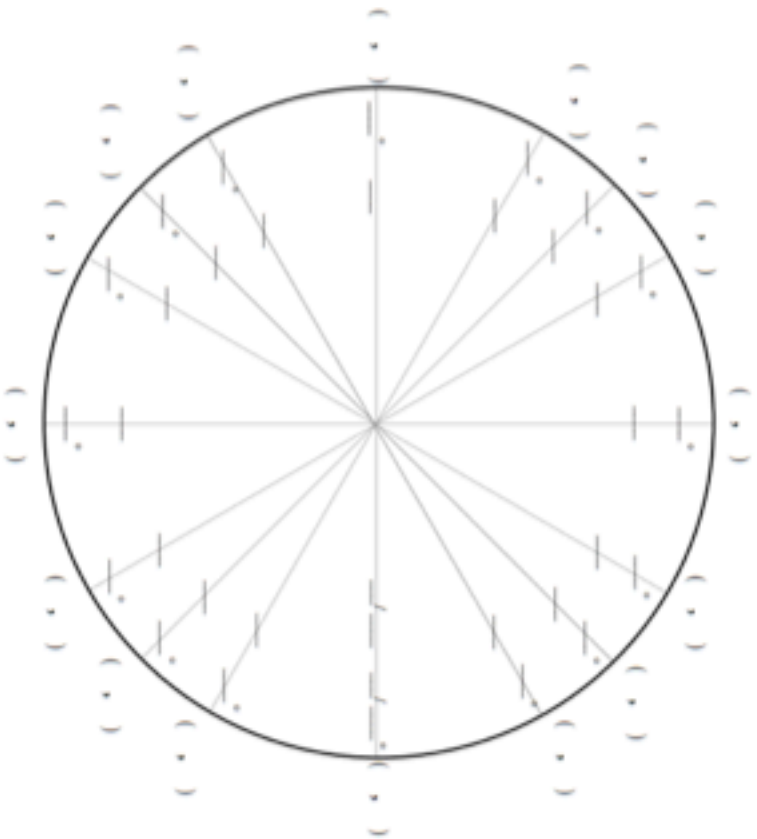
30.  $\cos 300^\circ$   
 $\frac{1}{2}$

Fill out each unit circle. Try to do it from memory – there will be a quiz next time.

9.2 HW



This side up



STOP!