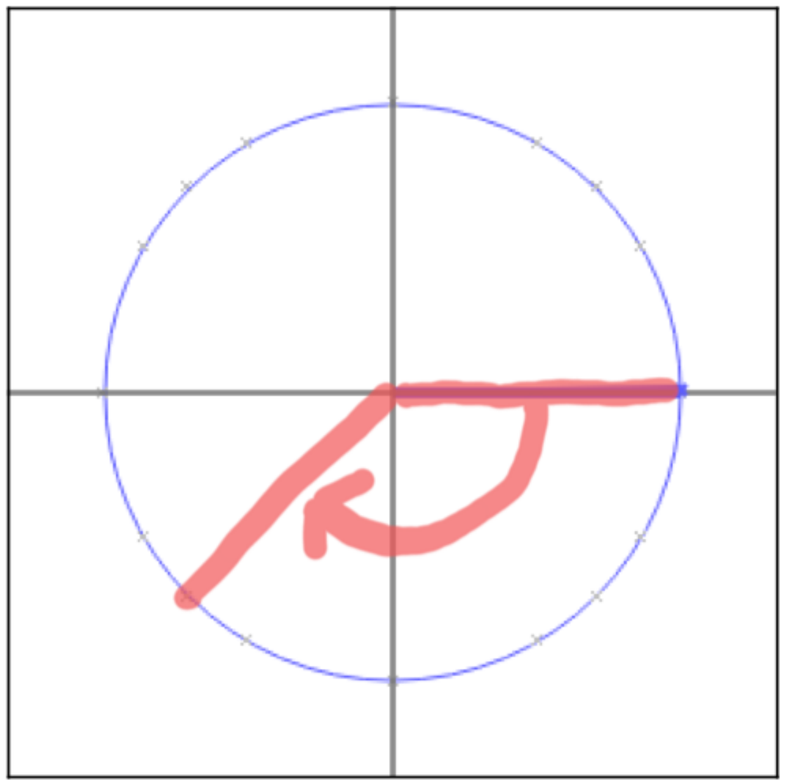
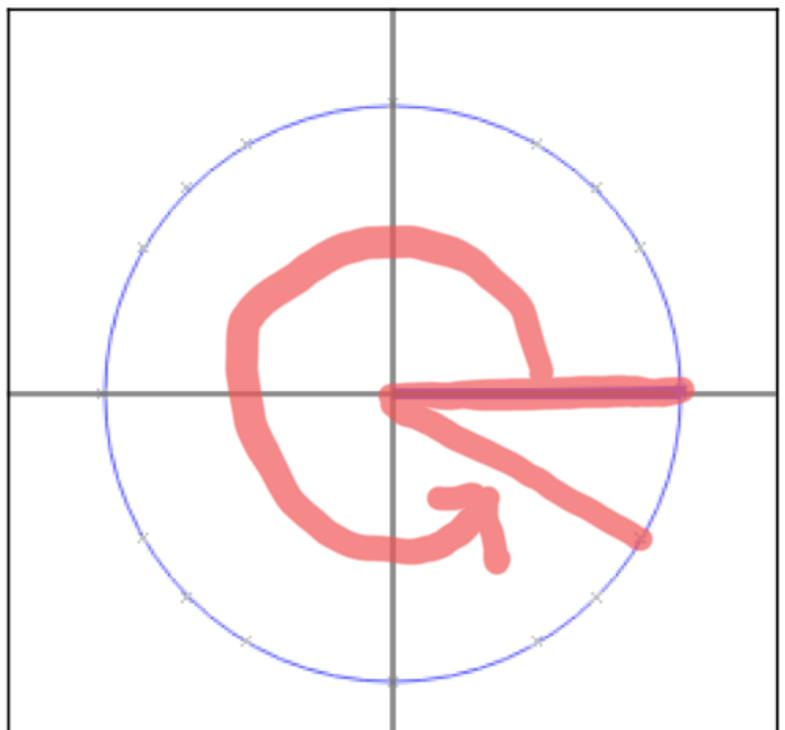
1. Sketch $\theta = -\frac{3\pi}{4}$ in standard position.



2. Sketch $\theta = \frac{11\pi}{6}$ in standard position.



3. Answer the following.

$2\pi = \frac{4\pi}{2}$

(a) Find an angle between 0 and 2π that is coterminal with $\frac{9\pi}{2}$.

$\frac{9\pi}{2} - \frac{4\pi}{2} = \frac{5\pi}{2} - \frac{4\pi}{2} = \boxed{\frac{\pi}{2}}$

(b) Find an angle between $0°$ and $360°$ that is coterminal with $-495°$.

Give exact values for your answers.

$-495° + 360° = -135° + 360° = \boxed{225°}$

4. Answer the following.

(a) Find an angle between 0 and 2π that is coterminal with $-\frac{3\pi}{2}$.

$\frac{-3\pi}{2} + \frac{4\pi}{2} = \boxed{\frac{\pi}{2}}$

(b) Find an angle between $0°$ and $360°$ that is coterminal with $660°$.

Give exact values for your answers.

$660° - 360° = \boxed{300°}$

5. Convert $-\frac{\pi}{2}$ radians to degree measure.

$\frac{-\pi}{1\,2} \cdot \frac{90\,180}{\pi} = -1 \cdot 90 = \boxed{-90°}$

6. Convert $150°$ to radian measure in terms of π.

$\frac{150°}{1} \cdot \frac{\pi}{180} = \frac{5 \cdot 30 \cdot \pi}{6 \cdot 30} = \boxed{\frac{5\pi}{6}}$

7. Convert $-\frac{9\pi}{4}$ radians to degree measure.

$\frac{-9\pi}{1\,4} \cdot \frac{45\,180}{\pi} = -9 \cdot 45 = \boxed{-405°}$

8. Convert $-540°$ to radian measure in terms of π.

$\frac{-3\,540}{1} \cdot \frac{\pi}{180\,1} = \boxed{-3\pi}$

9. Convert $\frac{3\pi}{2}$ radians to degree measure.

$\frac{3\pi}{1\,2} \cdot \frac{90\,180}{\pi} = 3 \cdot 90 = \boxed{270°}$