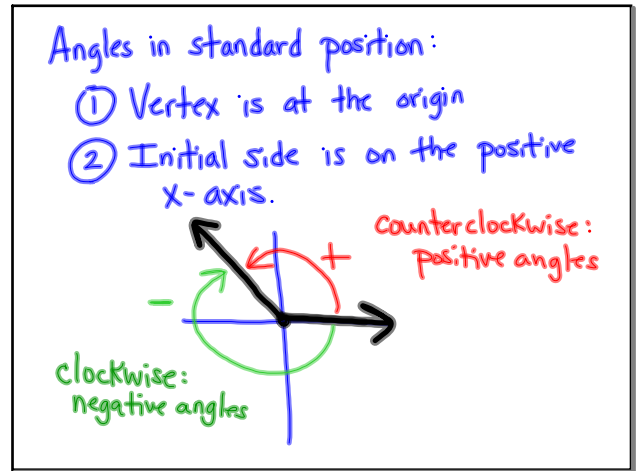
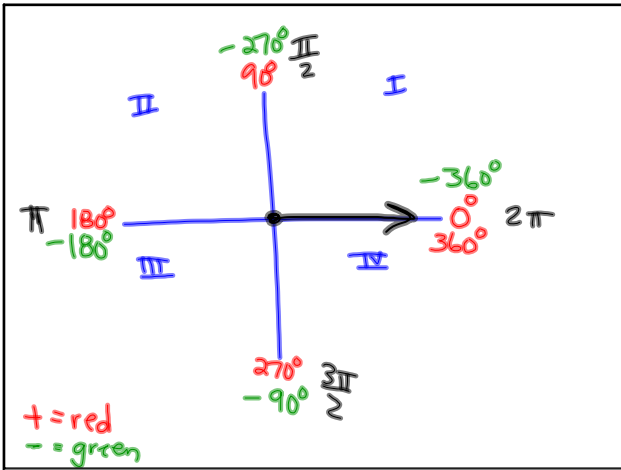


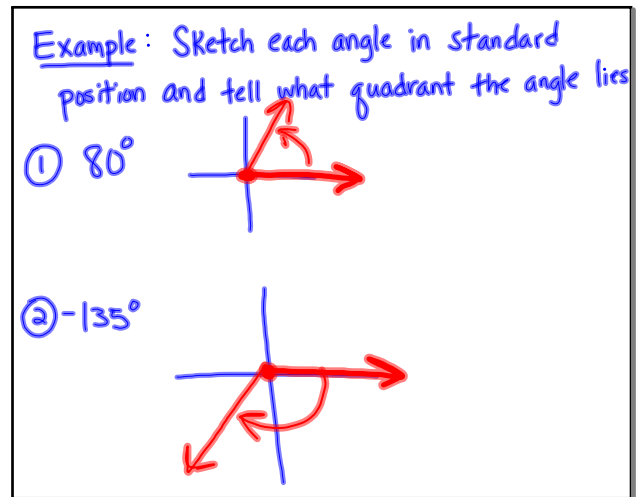
Jan 25-9:54 AM



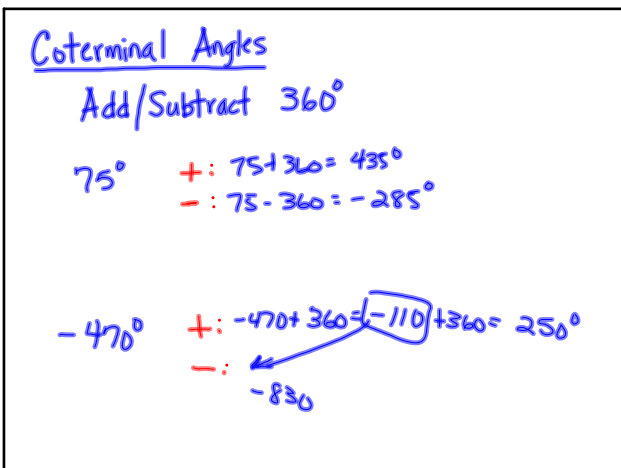
Jan 25-10:28 AM



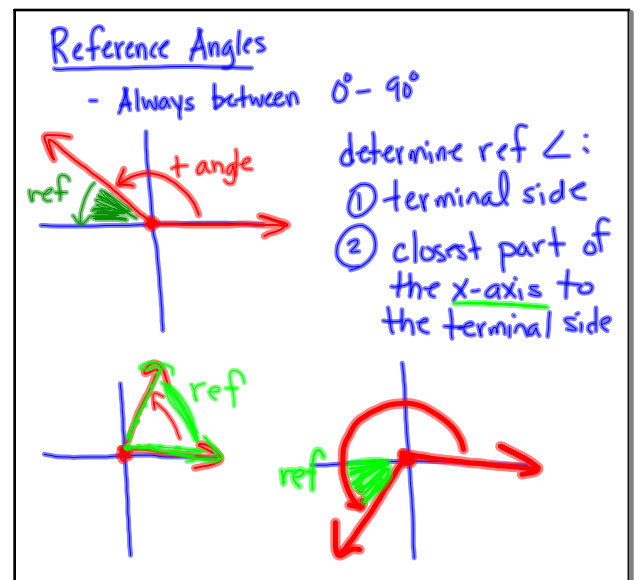
Jan 25-10:33 AM



Jan 25-10:37 AM

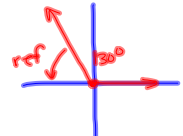


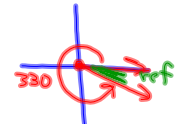
Jan 25-10:40 AM




Jan 25-10:46 AM

Example: Find the reference angle

③ 130°  50°
 $180 - 130$

④ 330°  30°
 $360 - 330$

⑤ -300°  60°
 $360 - 300$

Jan 25-10:52 AM

Angle Measures

① Degrees
 ② Radians (π)

Degrees \rightarrow Radians: $\text{degree} \cdot \frac{\pi}{180}$
 Radians \rightarrow Degrees: $\text{radian} \cdot \frac{180}{\pi}$

$90^\circ: 90 \cdot \frac{\pi}{180} = \frac{90\pi}{180} = \frac{\pi}{2}$
 $360^\circ: 360 \cdot \frac{\pi}{180} = \frac{360\pi}{180} = 2\pi$
 $240^\circ: 240 \cdot \frac{\pi}{180} = \frac{240\pi}{180} = \frac{4\pi}{3}$

Jan 25-10:58 AM


Example: Find 1 positive and 1 negative coterminal angle.

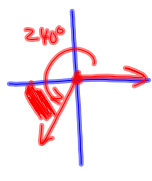
⑥ 47° $+: 407^\circ$
 $-: -313^\circ$

⑦ $\frac{\pi}{3}$ $\frac{\pi}{3} + 2\pi \frac{6\pi}{3} = \frac{7\pi}{3}$
 $\frac{\pi}{3} - 2\pi \frac{6\pi}{3} = -\frac{5\pi}{3}$

Jan 25-11:05 AM

Example: Find the reference angle.

⑧ -250°  70°

⑨ $\frac{4\pi}{3}$  $\frac{\pi}{3}$

$60^\circ \cdot \frac{\pi}{180} = \frac{60\pi}{180}$
 $\frac{4\pi}{3} \cdot \frac{180}{\pi} = 240$

Jan 25-11:08 AM

Degrees' Minutes' Seconds''

$72^\circ 47' 35''$ 72.79305556

Ans \blacktriangleright DMS

54.37 \blacktriangleright DMS $54^\circ 22' 12''$

Jan 25-11:14 AM