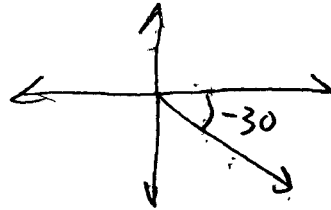


Mth 113 **Monday 1-14-13** **Class Notes**

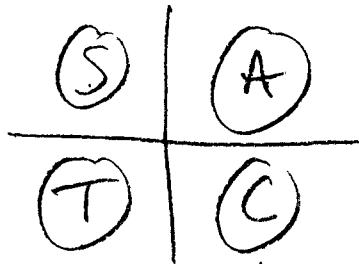
Co-terminal Angles

Find a \oplus and \ominus Coterminal Angle for:

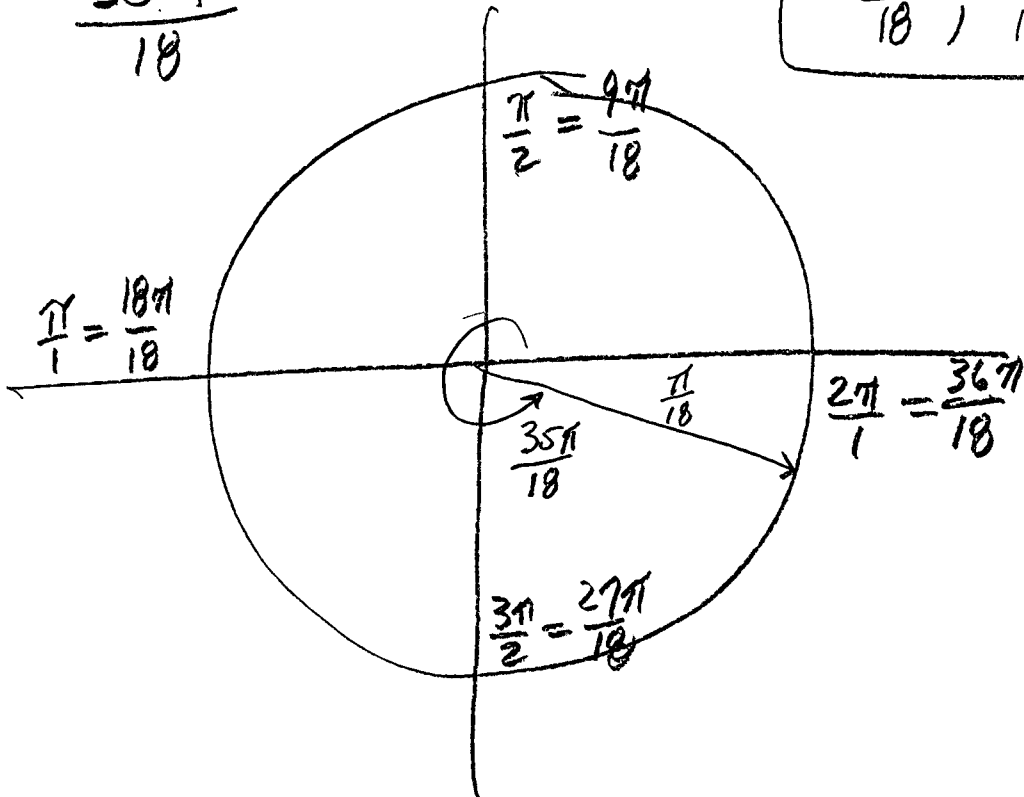
① -30°



$+330^\circ, -390^\circ$



⑤ $\frac{35\pi}{18}$



$-\frac{\pi}{18}, \frac{71\pi}{18}$

9) Are these coterminal?

$35^\circ, 235^\circ$

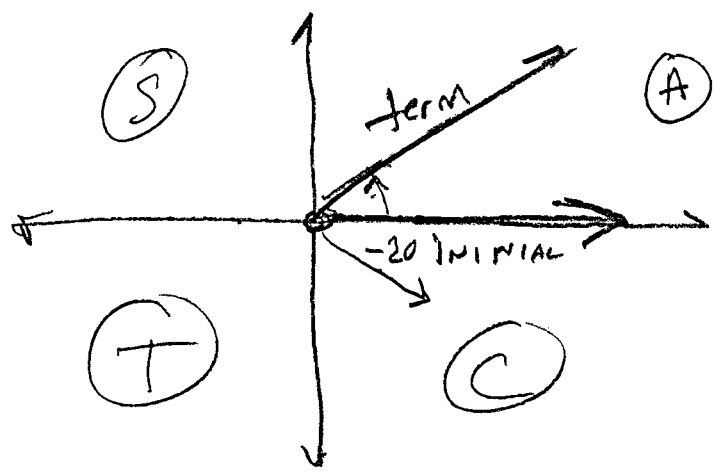
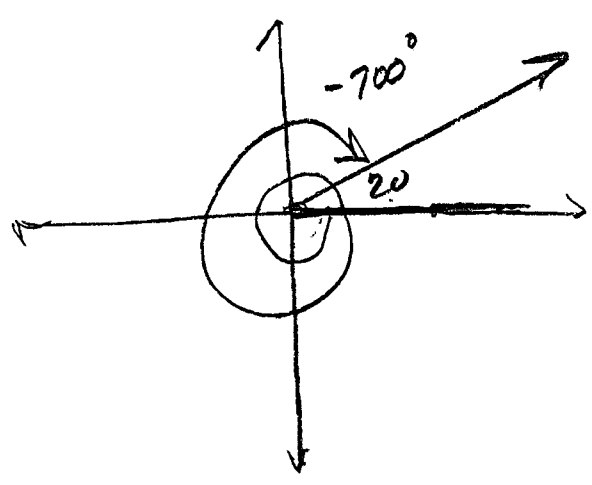
NO

11) $55^\circ, -415^\circ$

NO

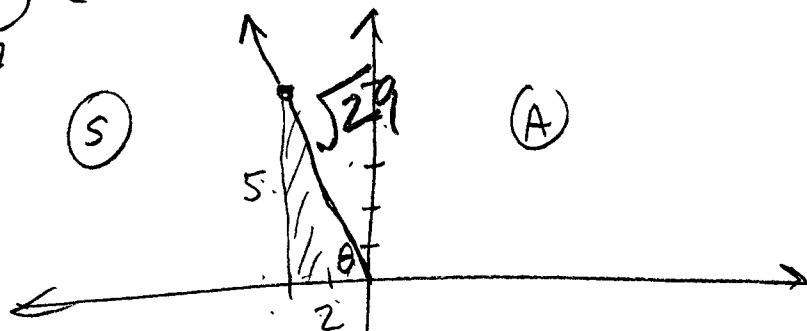
10) $20^\circ, -700^\circ$

YES



Point on term. side of angle
in std. position.

(21) (-2, 5)
pg 47



hypotenuse \Rightarrow
 $5^2 + 2^2 = h^2$
 $\sqrt{29} = h$

$$\sin \theta = \frac{5}{\sqrt{29}} \cdot \frac{\sqrt{29}}{\sqrt{29}} = \frac{5\sqrt{29}}{29}$$

$$\cos \theta = \frac{-2}{\sqrt{29}} \cdot \frac{\sqrt{29}}{\sqrt{29}} = -\frac{2\sqrt{29}}{29}$$

$$\tan \theta = -\frac{5}{2}$$

$$\csc \theta = \frac{\sqrt{29}}{5}$$

$$\sec \theta = -\frac{\sqrt{29}}{2}$$

$$\cot \theta = -\frac{2}{5}$$