Trig Review

6 pts. 1) Stick your rotten....

4 pts. 2) + Quadrants - All Star Trig Class

3 pts. 3) opp/adj/hypot — Oscar had.... Soh cah toa

$\sin A = \frac{o}{h}$

$\cos A = \frac{a}{h}$

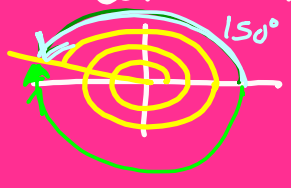
$\tan A = \frac{o}{a}$

10 pts. 4) Special Angle Table

Extra Credit: List Fund. Idn & Negative angles.

Omit 5, 11, 17, 18, 1a

1) Find smallest + & − angles coterminal 870°



$-720°$

$150°$

$360°$

$-150°$

$210°$

$150°, -210°$

2/3

π rads $= 180°$

Degs → Rads / Rads → Deg

$200° \cdot \frac{\pi}{180} = \frac{200}{180}\pi$

$= \frac{10}{9}\pi$

$\frac{11\pi}{18} \cdot \frac{180°}{\pi} = 110°$

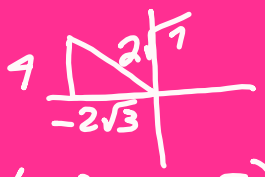
6/ What quadrant?

a) $\sec\theta > 0$ $\tan\theta < 0$

IV

DRAW A PICTURE.

7-10 Angle θ passes through $(-2\sqrt{3}, 4)$. Find $\sec\theta$.



$\sec\theta = \frac{r}{x}$

$(4)^2 + (-2\sqrt{3})^2 = r^2$

$16 + 12 = r^2$

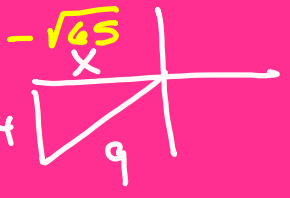
$\sqrt{28} = \sqrt{r^2}$

$\pm 2\sqrt{7} = r$

$= \frac{2\sqrt{7}}{-2\sqrt{3}} = -\frac{\sqrt{7}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = -\frac{\sqrt{21}}{3}$

8-10 Given $\csc\theta = -\frac{9}{4}\left(\frac{r}{y}\right)$ and $\tan\theta > 0$, find $\cot\theta$.

$\cot\theta = \frac{x}{y} = \frac{+\sqrt{65}}{+4}$



$x^2 + (-4)^2 = 9^2$

$x^2 + 16 = 81$

$\sqrt{x^2} = \sqrt{65}$

$x = \pm\sqrt{65}$

May 16, 2022

12 Biggest Points!

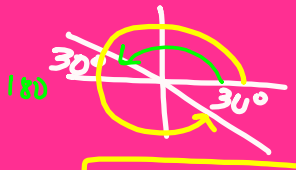
$\csc 210° = \boxed{-2}$

Check All Star!

$\cos \frac{17\pi}{6}$

$= \boxed{-\frac{\sqrt{3}}{2}}$

Find the angles $\boxed{0° \leq \theta < 360°}$ where $\tan\theta = -\frac{\sqrt{3}}{3}$

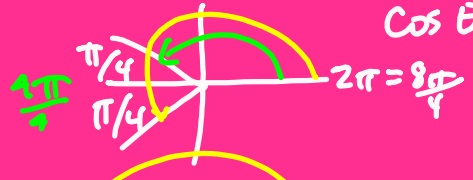


1) Find quad.
2) Find ref. ∠
3) Name angles

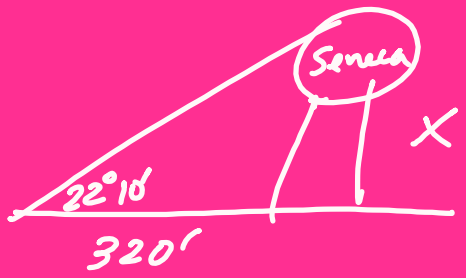
$\boxed{150°, 330°}$

Find the angles $\boxed{0 \leq \theta < 2\pi}$ where $\sec\theta = -\sqrt{2}$.

$\cos\theta = \frac{\sqrt{2}}{2}$



$\boxed{\frac{3\pi}{4}, \frac{5\pi}{4}}$



$320 \cdot \tan 22°10' = \frac{X}{320} \cdot 320$

↑ Template Key

$\tan A = \frac{150}{320}$

$\tan^{-1}(150/320)$