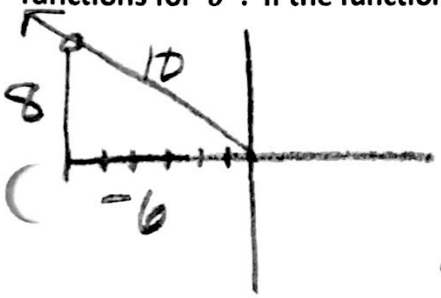
Math 3 – Unit 7 Quiz 2 *Quiz Review* NO CALCULATOR Name _____

I. Convert.

1. Convert $20°$ to radians	2. Convert $\frac{5\pi}{3}$ to degrees
$\frac{20^{\circ}}{1}\cdot\frac{\pi}{180^{\circ}}\quad\frac{20\pi}{180}=\boxed{\frac{\pi}{9}}$	$\frac{5\pi}{3_1}\cdot\frac{60}{\pi}=\boxed{300^{\circ}}$
3. Convert $\frac{7\pi}{4}$ to degrees	4. Convert $120°$ to radians
$\frac{7\pi}{4_1}\cdot\frac{45}{\pi}\quad\boxed{315^{\circ}}$	$\frac{120^{\circ}}{1}\quad\frac{\pi}{180^{\circ}}\quad\frac{120\pi}{180}\quad\boxed{\frac{2\pi}{3}}$

II. The point P has coordinates (-6,8) and is on the terminal side of angle θ. Evaluate the six trigonometric functions for θ. If the function is undefined, write "undefined."



$8^2+(-6)^2=r^2$

$64+36=r^2$

$100=r^2$

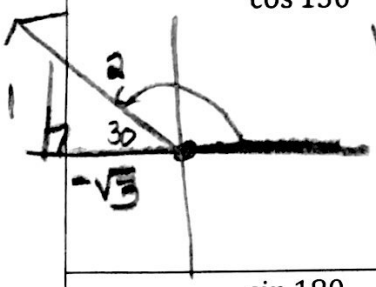
$10=r$

$\sin=\frac{8}{10}=\boxed{\frac{4}{5}}$ $\csc\ \boxed{\frac{5}{4}}$

$\cos=\frac{-6}{10}=\boxed{\frac{-3}{5}}$ $\sec\ \boxed{\frac{-5}{3}}$

$\tan=\frac{8}{-6}=\boxed{\frac{-4}{3}}$ $\cot\ \boxed{\frac{-3}{4}}$

IV. Find the exact value for each.

cos 150  $\boxed{\frac{-\sqrt{3}}{2}}$	sin 210 $\boxed{\frac{-1}{2}}$	cos 300 $\boxed{\frac{1}{2}}$
sin 180 $\boxed{0}$	Tan 270 $\boxed{\text{Undefined}}$	cos 225 $\boxed{\frac{-\sqrt{2}}{2}}$

Study!