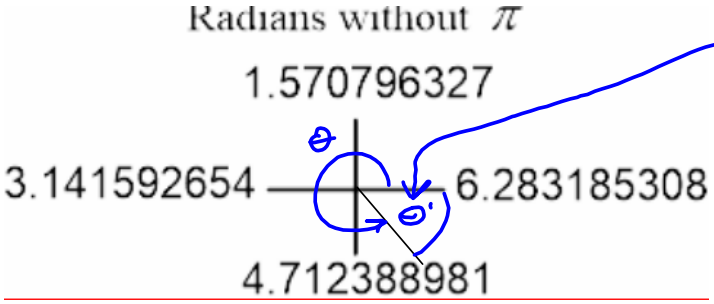
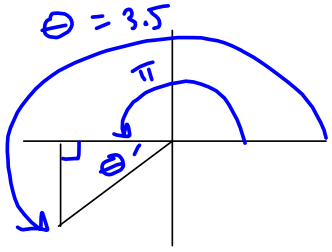
Find Reference Angle $(5.1)\left(\frac{180^\circ}{\pi}\right) \approx 292.208475517^\circ$



θ' = ref angle.

So $\theta' = 2\pi - 5.1 \approx 1.18318530718$ is radian measure for the reference angle.

What about something like $\theta = 3.5$



$\theta' = 3.5 - \pi \approx 0.35840734641$

$(3.5)\left(\frac{180^\circ}{\pi}\right) \approx 200.535228296^\circ$

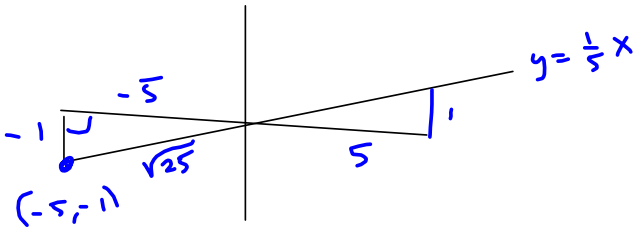
$200.535228296^\circ - 180^\circ \approx 20.535228296^\circ$

Check: $(0.35840734641)\left(\frac{180^\circ}{\pi}\right) \approx 20.5352282958^\circ$

Nice!

$y = \frac{1}{5}x$. Q III . 6 Trigs.

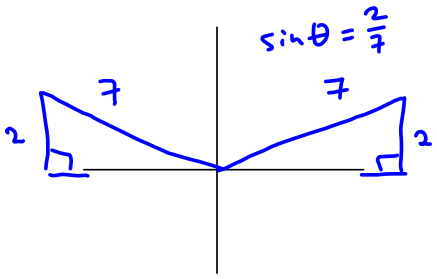
Find 6 values of trig functions, given the terminal side for θ lies in Q III



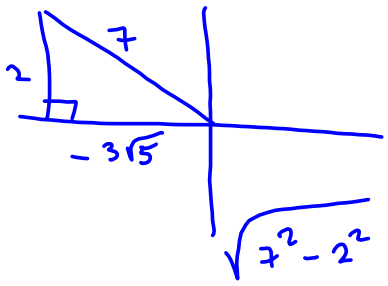
$1^2 + 5^2 = 26 \rightsquigarrow \sqrt{26}$

$\sin\theta =$	$-\frac{1}{\sqrt{26}}$	$\csc\theta =$	$-\sqrt{26}$
$\cos\theta =$	$\frac{-5}{\sqrt{26}}$	$\sec\theta =$	$-\frac{\sqrt{26}}{5}$
$\tan\theta =$	$\frac{1}{5}$	$\cot\theta =$	5

$\sin\theta = \frac{2}{7}$, $\cos\theta < 0$ Find 6 trigs.



$\sin\theta = \frac{2}{7}$ AND $\cos\theta < 0$



$\sqrt{7^2 - 2^2} = \sqrt{49-4} = \sqrt{45}$
$= 3\sqrt{5}$

$3 \mid 45$
$3 \mid 15$
5
$3\sqrt{5}$

$\sin\theta = \frac{2}{7}$	$\csc\theta = \frac{7}{2}$
$\cos\theta = -\frac{3\sqrt{5}}{7}$	$\sec\theta = -\frac{7}{3\sqrt{5}}$
$\tan\theta = \frac{2}{-3\sqrt{5}}$	$\cot\theta = -\frac{3\sqrt{5}}{2}$

$\frac{5}{100}$ EMAIL + $\frac{5}{100}$ ATTEND + $\frac{20}{100}$ WebAssign +W

+ $\frac{20}{100}$ WEEKLY + $\frac{15}{100}$ Quizzes + $\frac{35}{100}$ written Tests.

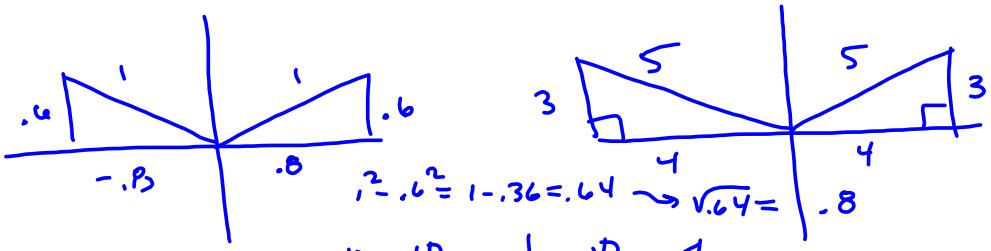
$\frac{5}{85}$ EMAIL + $\frac{5}{85}$ ATTEND + $\frac{20}{85}$ WebAssign +W

+ $\frac{20}{85}$ WEEKLY + $\frac{35}{85}$ written Tests.

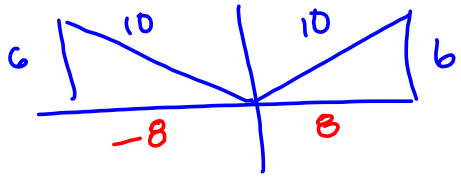
Section 1.4

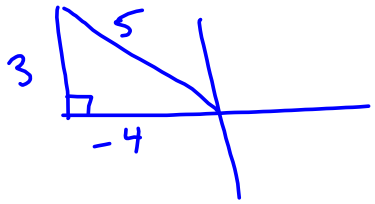
#12

$\sin\theta = .6 = \frac{6}{10} = \frac{3}{5}$ QII



$1^2 - .6^2 = 1 - .36 = .64 \rightarrow \sqrt{.64} =$





$\sin\theta = \frac{3}{5}$

$\cos\theta = -\frac{4}{5}$

$\tan\theta =$

$\csc\theta = \frac{5}{3} = 1.\overline{6}$

$\sec\theta =$

$\cot\theta =$

WebAss.gui Wants

WebAssign chokes

etc