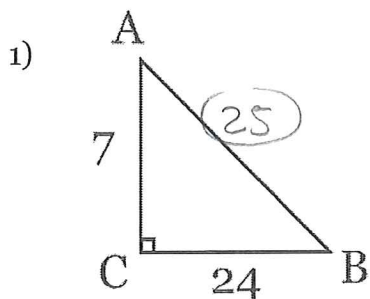
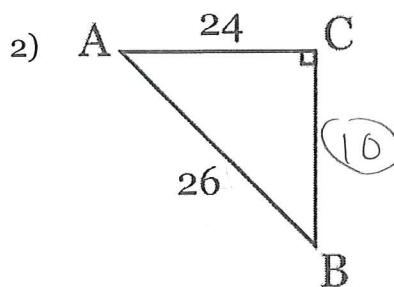


Find the six trig functions given the following right triangles.



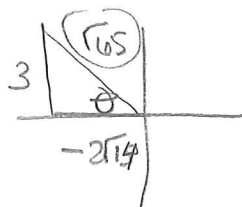
$\sin A = \frac{24}{25}$	$\csc A = \frac{25}{24}$
$\cos A = \frac{7}{25}$	$\sec A = \frac{25}{7}$
$\tan A = \frac{24}{7}$	$\cot A = \frac{7}{24}$



$\frac{24}{10}$	$\sin B = \frac{12}{13}$	$\csc B = \frac{13}{12}$
$\frac{10}{26}$	$\cos B = \frac{5}{13}$	$\sec B = \frac{13}{5}$
$\frac{24}{10}$	$\tan B = \frac{12}{5}$	$\cot B = \frac{5}{12}$

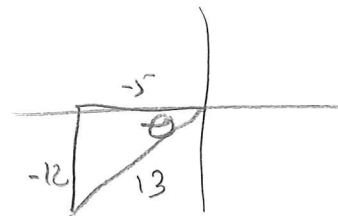
Find the six trig functions given an ordered pair.

3)  $(-2\sqrt{14}, 3)$



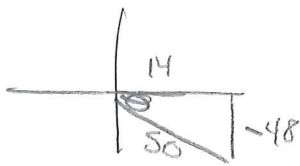
$\sin \theta = \frac{3}{\sqrt{65}}$	$\csc \theta = \frac{\sqrt{65}}{3}$
$\cos \theta = \frac{-2\sqrt{14}}{\sqrt{65}}$	$\sec \theta = \frac{-\sqrt{65}}{2\sqrt{14}}$
$\tan \theta = \frac{-3}{2\sqrt{14}}$	$\cot \theta = \frac{-2\sqrt{14}}{3}$

4)  $(-5, -12)$



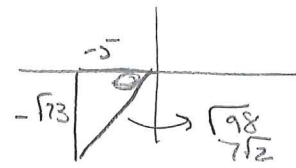
$\sin \theta = \frac{-12}{13}$	$\csc \theta = \frac{-13}{12}$	
$\cos \theta = \frac{-5}{13}$	$\sec \theta = \frac{-13}{5}$	
$\frac{-12}{-5}$	$\tan \theta = \frac{12}{5}$	$\cot \theta = \frac{5}{12}$

5)  $(14, -48)$



$\frac{-48}{50}$	$\sin \theta = \frac{-24}{25}$	$\csc \theta = \frac{-25}{24}$
$\frac{14}{50}$	$\cos \theta = \frac{7}{25}$	$\sec \theta = \frac{25}{7}$
$\frac{-48}{14}$	$\tan \theta = \frac{-24}{7}$	$\cot \theta = \frac{-7}{24}$

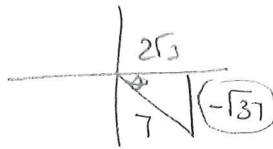
6)  $(-5, -\sqrt{73})$



$\frac{-\sqrt{73}}{\sqrt{98}}$	$\sin \theta = \frac{-\sqrt{73}}{7\sqrt{2}}$	$\csc \theta = \frac{-7\sqrt{2}}{\sqrt{73}}$
	$\cos \theta = \frac{-5}{7\sqrt{2}}$	$\sec \theta = \frac{-7\sqrt{2}}{5}$
$\frac{-\sqrt{73}}{-5}$	$\tan \theta = \frac{\sqrt{73}}{5}$	$\cot \theta = \frac{5}{\sqrt{73}}$

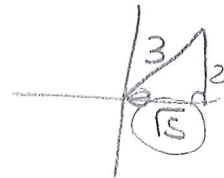
Find the six trig functions given the value of one function and the quadrant.

7)  $\cos A = \frac{2\sqrt{3}}{7}$      $\frac{3\pi}{2} < \theta < 2\pi$



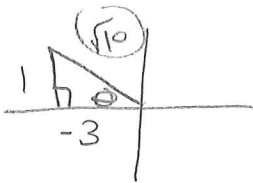
$\sin A = \frac{-\sqrt{37}}{7}$	$\csc A = \frac{-7}{\sqrt{37}}$
$\cos A = \frac{2\sqrt{3}}{7}$	$\sec A = \frac{7}{2\sqrt{3}}$
$\tan A = \frac{-\sqrt{37}}{2\sqrt{3}}$	$\cot A = \frac{-2\sqrt{3}}{\sqrt{37}}$

8)  $\sin B = \frac{2}{3}$      $0 < \theta < \frac{\pi}{2}$



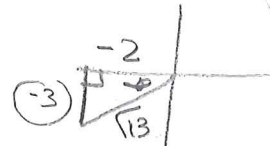
$\sin B = \frac{2}{3}$	$\csc B = \frac{3}{2}$
$\cos B = \frac{\sqrt{5}}{3}$	$\sec B = \frac{3}{\sqrt{5}}$
$\tan B = \frac{2}{\sqrt{5}}$	$\cot B = \frac{\sqrt{5}}{2}$

9)  $\tan A = -\frac{1}{3}$      $90^\circ < \theta < 180^\circ$



$\sin A = \frac{1}{\sqrt{10}}$	$\csc A = \sqrt{10}$
$\cos A = \frac{-3}{\sqrt{10}}$	$\sec A = \frac{-\sqrt{10}}{3}$
$\tan A = -\frac{1}{3}$	$\cot A = -3$

10)  $\sec B = -\frac{\sqrt{13}}{2}$      $180^\circ < \theta < 270^\circ$



$\sin B = \frac{-3}{\sqrt{13}}$	$\csc B = \frac{-\sqrt{13}}{3}$
$\cos B = \frac{-2}{\sqrt{13}}$	$\sec B = \frac{-\sqrt{13}}{2}$
$\tan B = \frac{3}{2}$	$\cot B = \frac{2}{3}$