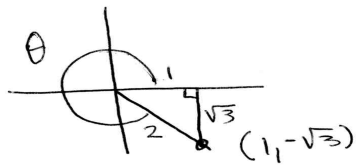


# Trig worksheet - Ans Key

- ① a)  $\sqrt{3}/2$  c)  $\sqrt{2}/2$  e) undefined  
b) 2 d) 1 f) -1

②  $\sec \theta = 2, \sin \theta < 0$   $\cos \theta = \frac{1}{2}$



$x=1, y=-\sqrt{3}, r=2$

$\sin \theta = -\frac{\sqrt{3}}{2}$	$\csc \theta = -\frac{2}{\sqrt{3}}$
$\cos \theta = \frac{1}{2}$	$\sec \theta = 2$
$\tan \theta = -\sqrt{3}$	$\cot \theta = -\frac{1}{\sqrt{3}}$

③ a)  $125^\circ = \frac{125^\circ(\pi)}{180^\circ} = \boxed{\frac{25\pi}{36}}$

b)  $\frac{3(180^\circ)}{\pi} \approx \boxed{171.888^\circ}$

④  $\sin\left(\frac{\pi}{6}\right) + \sin\left(\frac{3\pi}{2}\right)$   
 $\frac{1}{2} + (-1)$   
 $\boxed{-\frac{1}{2}}$