

**MCR3UI Unit 5 Skill Reflection #5 PLEASE DO NOT WRITE ON THIS PAPER.****\*\*\*DO ALL THESE WITHOUT A CALCULATOR****RECORD ALL ANSWERS ON SCRAP PAPER.**

1. Complete each of the following tables.

Related Acute Angle, $\beta$	Quadrant	Sketch	Principal Angle, $\theta$
$70^\circ$	3		

Related Acute Angle, $\beta$	Quadrant	Sketch	Principal Angle $\theta$
			$350^\circ$

2. The point  $(-6, 6)$  is on the terminal arm of an angle  $\theta$  in standard position.a) Draw angle  $\theta$  in standard position. Notice: the point  $(-1, 1)$  is also on the terminal arm with the same value for  $\theta$ .b) Find the exact trig ratios  $\sin\theta$ ,  $\cos\theta$ ,  $\tan\theta$ ,  $\csc\theta$ ,  $\sec\theta$ , and  $\cot\theta$ (This will be the same ratios as using  $(-1, 1)$  and your special  $1, 1, \sqrt{2}$  triangle)c) Determine the value of  $\theta$ , using your special triangle knowledge.3. Determine all possible values of  $\theta$  for each of the following, given  $0^\circ < \theta < 360^\circ$ .a)  $\sin\theta = \frac{-1}{2}$     b)  $\sin\theta = \frac{\sqrt{3}}{2}$     c)  $\cos\theta = \frac{-1}{\sqrt{2}}$     d)  $\tan\theta = \frac{1}{\sqrt{3}}$     e)  $\tan\theta = -1$     f)  $\csc\theta = -2$ 

4. Determine the exact value of each of the following the trig ratios.

Draw a diagram to support each answer.

a)  $\sin 135^\circ$     b)  $\sin 330^\circ$     c)  $\cos 240^\circ$     d)  $\cos 210^\circ$     e)  $\tan 45^\circ$     f)  $\cot 225^\circ$     g)  $\cot 300^\circ$ **MCR3UI Unit 5 Skill Reflection #5 PLEASE DO NOT WRITE ON THIS PAPER.****\*\*\*DO ALL THESE WITHOUT A CALCULATOR****RECORD ALL ANSWERS ON SCRAP PAPER.**

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