Name	
Date	

Unit 9: Solving Trig Equations- Assignment #16

(No manipulation) Just using the first quadrant values to find your answer.

1) Sin
$$\Theta = \frac{\sqrt{2}}{2}$$
 domain $90 < \theta < 180$

Solution: So where is the $\sin\frac{\sqrt{2}}{2}$? If you know your first quadrant values you know that is at the 45. However, my answer needs to be in the second quadrant according to the domain. So I know in the second quadrant a reference angle of 45 is 135°. So $\emptyset = 135^{\circ}$

2)
$$\cos \theta = -1 \text{ domain } 90 \le \theta \le 180$$

3)
$$\cos \theta = -.5$$
 domain $90 \le \theta \le 180$

4)
$$\sin \theta = -.5$$
 domain $180 \le \theta \le 360$

5)
$$\cos \theta = \frac{\sqrt{2}}{2}$$
 domain $180 \le \theta \le 360$

6)
$$\sin \theta = \frac{\sqrt{3}}{2}$$
 domain $0 \le \theta \le 180$

7)
$$\tan \theta = \frac{\sqrt{3}}{1}$$
 domain $180 \le \theta \le 360$

8)
$$\tan \theta = -1$$
 domain $180 \le \theta \le 360$