

# ALG 2

## Ch 13

### Sec 13.1-13.5 Review

| 1. $\theta$ | $4\cos\theta$ |
|-------------|---------------|
| 0           | 4             |
| $3\pi$      | 0             |
| $6\pi$      | -4            |
| $9\pi$      | 0             |
| $12\pi$     | 4             |

2.  $y = 2\cos \frac{3}{2}\theta$

3.  $y = 4\cos 2\theta$

4.  $P = \pi/4$   
amp = 3

5.  $y = 4\sin 4\theta$

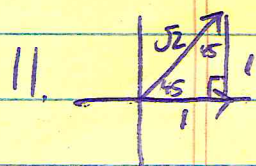
6.  $y = 4\sin 6\theta$

| $\theta$ | $-2\sin\theta$ |
|----------|----------------|
| 0        | 0              |
| $\pi/6$  | -2             |
| $\pi/3$  | 0              |
| $\pi/2$  | 2              |
| $2\pi/3$ | 0              |

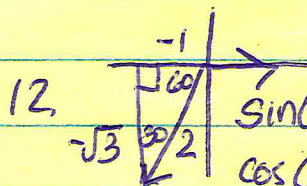
8. amp = 3  
 $P = \frac{2\pi}{7}$

9.  $260^\circ$

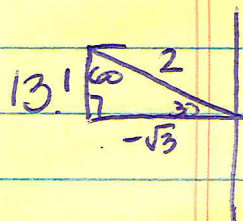
10.  $12^\circ$



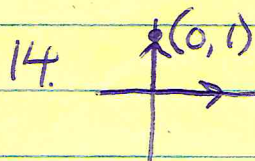
11.  $\sin 45^\circ = \frac{\sqrt{2}}{2}$   
 $\cos 45^\circ = \frac{\sqrt{2}}{2}$   
 $\tan 45^\circ = 1$



12.  $\sin(-120^\circ) = -\frac{\sqrt{3}}{2}$   
 $\cos(-120^\circ) = -\frac{1}{2}$   
 $\tan(-120^\circ) = \sqrt{3}$



13.  $\sin(150^\circ) = \frac{1}{2}$   
 $\cos(150^\circ) = -\frac{\sqrt{3}}{2}$   
 $\tan(150^\circ) = -\frac{\sqrt{3}}{3}$



14.  $\sin 90^\circ = 1$   
 $\cos 90^\circ = 0$   
 $\tan 90^\circ = \text{undefined}$

For Full credit, you must show all ratios, including rationalizing

15.  $\frac{\pi}{4}$

16.  $\frac{\pi}{2}$

17.  $150^\circ$

18.  $135^\circ$

19.  $\frac{\sqrt{10}}{5}$

20.  $\frac{\sqrt{3}}{3}$