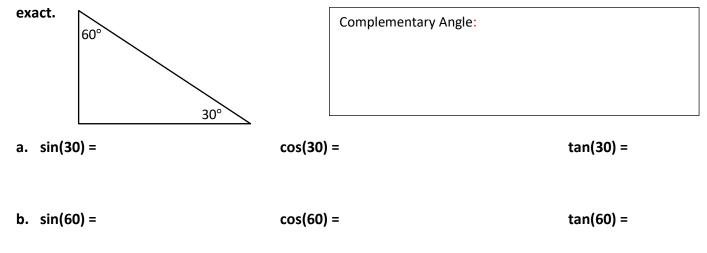
Geometry (G.SRT.7, 8)	
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Period:

## Unit Two: Trig with Complements & Angles of Elevation/Depression (IC/HW23) Date:

1. Label the special right triangle below. Then, find the trig ratios asked for below. Your answers should be



- 2. What patterns do you notice in the trigonometric ratios above?
- 3. Why does the sin  $\Theta = \cos (90 \Theta)$ ?

## 3. Solve the following.

a) 
$$\sin 42^\circ = \cos \____^\circ$$
 b)  $\cos 12^\circ = \sin \___^\circ$  c)  $\sin 45^\circ = \cos \___^\circ$   
d)  $\cos 0^\circ = \sin \___^\circ$  e)  $\cos 65^\circ = \sin \___^\circ$  f)  $\sin 78.5^\circ = \cos \___^\circ$ 

## 4. Solve for the unknown.

a) sin (x – 5°) = cos (35°)	b) sin (2x – 17°) = cos (x – 4°)	c) sin (x)= cos (x)
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d) 
$$\sin(\frac{3}{4}x) = \cos(\frac{1}{4}x)$$
 e)  $\sin(5x - 22^\circ) = \cos(x - 10^\circ)$  f)  $\sin(\frac{3}{4}x - 3) = \cos(66^\circ)$ 

