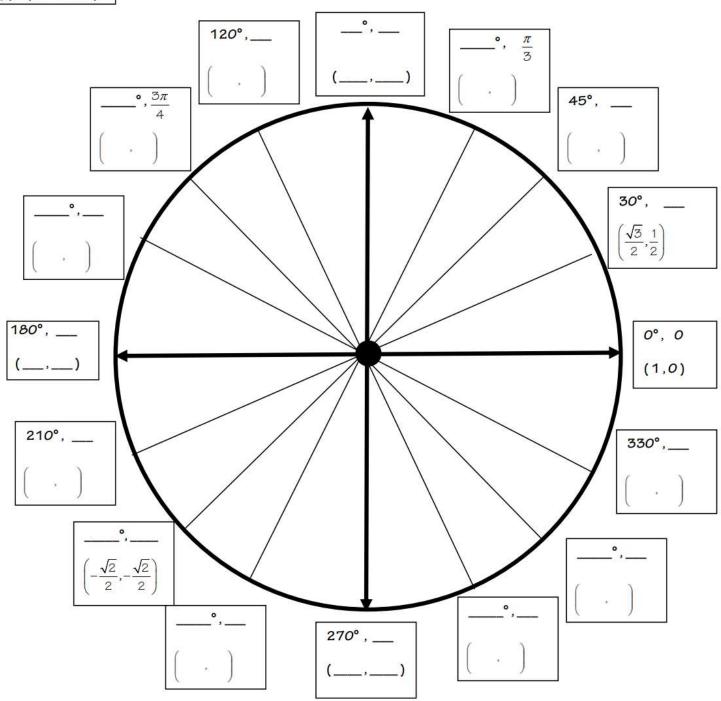


Name:	Period:

9.2 The Unit Circle

Fill in the missing values.

____°, ____radians
$$(x, y) = (\cos \theta, \sin \theta)$$



Complete this table:

Angle (degrees)°	sin heta	cos θ	tan $ heta$	Angle (radians)
(close cos)				(144114115)
O°				
30°				
45°				
60°				
90°				
12 <i>0</i> °				
135°				
150°				
180°				
210°				
225°				
240°				
270°				
300°				
315°				
330°				
360°				

Use the table and the Unit Circle to help answer these questions about the sine and the cosine:

1. The maximum value of the $\sin \theta$ is: It occurs at what ang	le?
2. The minimum value of the sin $ \theta $ is: It occurs at what a	ngle ?
3. As the angle $ heta$ goes from 0° to 90° the value of the $\sin heta$ goes from	1 to
4. As the angle $ heta$ goes from 90° to 180° the value of the $\sin heta$ goes from	om to
5. As the angle $ heta$ goes from 180° to 270° the value of the $\sin heta$ goes f	rom to
6. As the angle $ heta $ goes from 270° to 360° the value of the $$ sin $ heta $ goes	from to
7. The maximum value of the $\cos heta$ is: It occurs at what angl	e?
8. The minimum value of the $\cos heta$ is: It occurs at what and	gle ?
9. As the angle $ heta$ goes from 0° to 90° the value of the cos $ heta$ goes from	to
10. As the angle $ heta$ goes from 90° to 180° the value of the $\cos heta$ goes fr	om to
11. As the angle θ goes from 180° to 270° the value of the $\cos\theta$ goes fr	om to
12. As the angle $ heta$ goes from 270° to 360° the value of the $\cos heta$ goes	from to