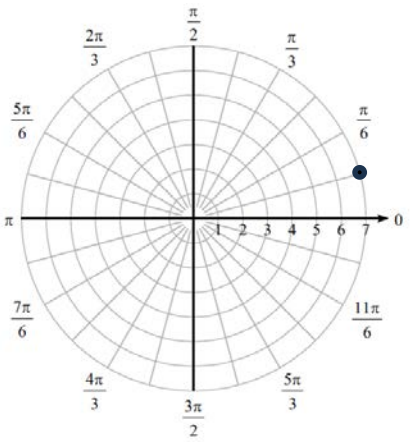
Pre-Cal CW 9.5-9.6 Polar Coordinates and Polar Equations (<u>Can Write on</u>)

1. Write the 4 polar representations for the given point in the domain $-2\pi < \theta < 2\pi$.



_____

_____

_____

_____

2. Convert the following to its polar form.
$(2, -2\sqrt{3})$

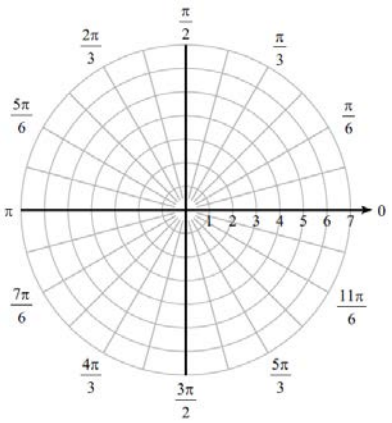
3. Convert the following to its rectangular form.
$(-2, -\frac{11\pi}{6})$

4. Convert the following equation to its polar form for r. $x^2 + (y-1)^2 = 1$

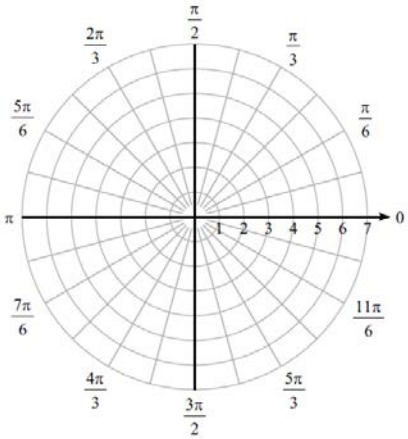
5. Convert the following polar equation to its rectangular form. (Write you answer in the standard form of a circle) $r = -4\cos\theta + 6\sin\theta$

Use a table of values to graph each. Use as many points as you find necessary.

6. $r = -4$



7. $r = -2\sin\theta$



8. $r = 3 - 3\cos\theta$

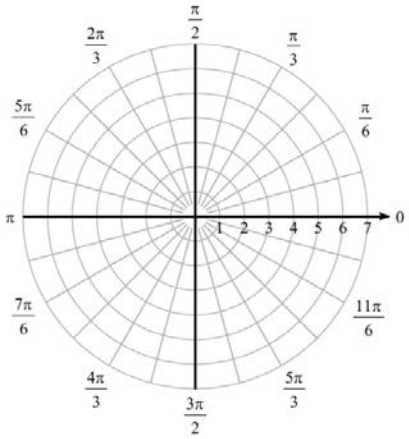


Table of values for #7 work

r												
θ												

Table of values for #8 work

r												
θ												