

1. Identify the rectangular coordinates for the given polar

coordinates: $\left(8, \frac{\pi}{3}\right)$

2. Identify the polar coordinates for the given rectangular

coordinates: $(4, -4\sqrt{3})$

3. Identify the Rectangular Equation for the given polar equation:

$$r = 14$$

4. Identify the Polar equation for the given rectangular equation:

$$(x - 11)^2 + (y)^2 = 121$$

5. Is this series convergent or divergent?

$$\sum_{n=1}^{\infty} \frac{n}{\sqrt{n^3 + 1}}$$

6. What is the explicit formula for the arithmetic sequence :

177, 160, 143, ...

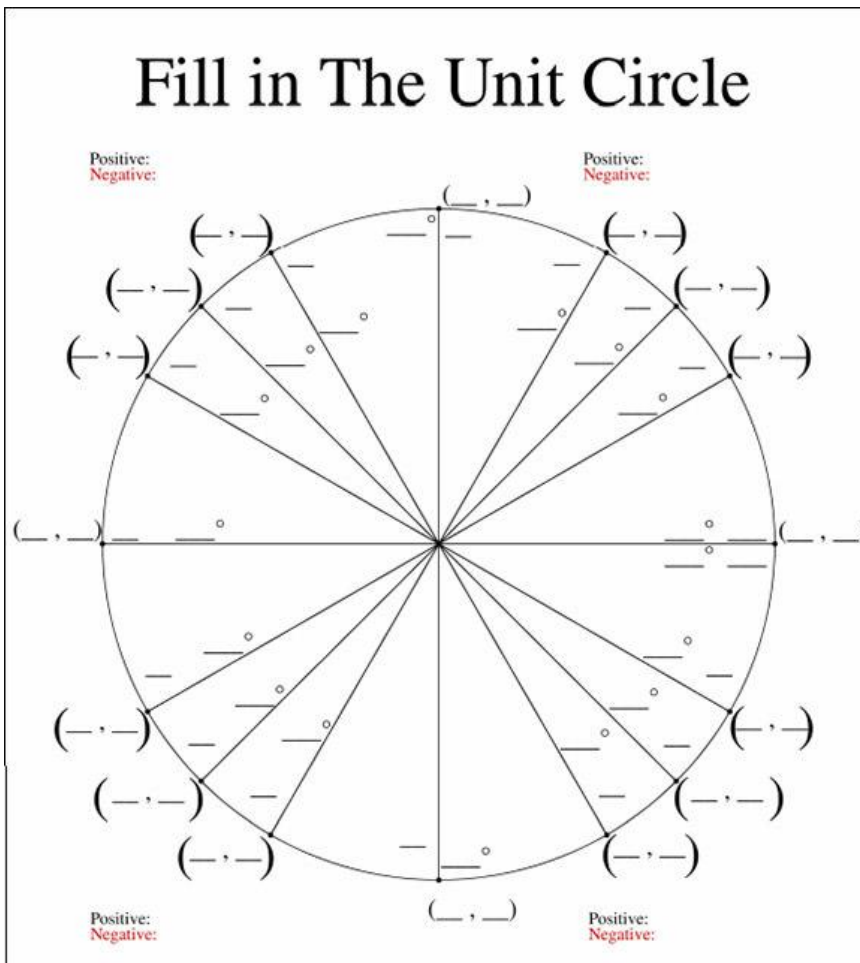
7. Write the parametric equations as a rectangular equation:

$$x = 3t; y = 4t^2 - 7t + 1$$

8. Write the polar complex number in rectangular form:

$$6 \left(\cos \frac{5\pi}{3} + i \sin \frac{5\pi}{3} \right)$$

9. Fill in the blank Unit Circle: {degrees, radians, ordered pairs}



10. Write the complex number in polar form: $-6\sqrt{3} + 6i$