

Section 10.3: Additional Problems

1) The polar coordinate for a point are $(10, \frac{3\pi}{7})$. Give another polar representations of this point that meet the following conditions.

A) $r > 0$ and $\theta > 0$

B) $r < 0$

C) $3\pi < \theta < 4\pi$

D) $-\pi < \theta < 0$

2) Find a Cartesian equation for $r = 2 \cos \theta$.

3) Sketch the graph of $r = 8 \cos(3\theta)$