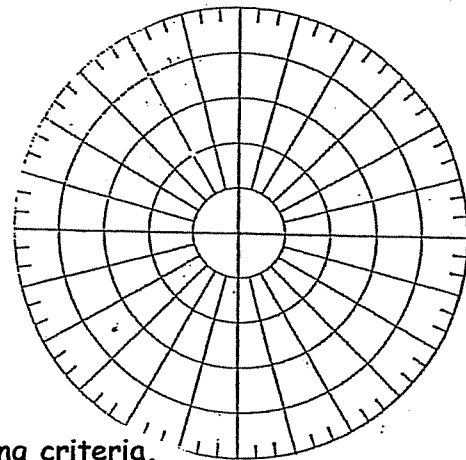


I. Graph each point and label.

- A $(3, \frac{\pi}{6})$ B $(-2, \frac{-\pi}{3})$ C $(-3, 180^\circ)$
 D $(1, 135^\circ)$ E $(-1, 45^\circ)$ F $(2, \frac{4\pi}{3})$



II. Name the above points using coordinates fitting the following criteria.

	$r > 0$ and $0^\circ < \theta < 360^\circ$	$r < 0$ and $0^\circ < \theta < 360^\circ$	$r > 0$ and $-360^\circ < \theta < 0^\circ$	$r < 0$ and $-360^\circ < \theta < 0^\circ$
A				
B				
C				
D				
E				

III. Convert each polar coordinate to rectangular coordinates.

1. $(3, 150^\circ)$ 2. $(2, \frac{\pi}{6})$ 3. $(0, 27^\circ)$
 4. $(4, \frac{5\pi}{3})$ 5. $(6, \frac{-\pi}{4})$ 6. $(-7, \frac{7\pi}{4})$
 7. $(1, 210^\circ)$ 8. $(-5, 95^\circ)$ 9. $(10, 240^\circ)$

IV. Convert each rectangular coordinate to polar coordinates. Give exact answers for r .

1. $(\sqrt{3}, 1)$ 2. $(\sqrt{3}, -\sqrt{3})$ 3. $(-5, 5)$ 4. $(5, -5)$
 5. $(0, -8)$ 6. $(2, -\sqrt{2})$ 7. $(3, 4)$ 8. $(5, -12)$
 9. $(-3, -12)$