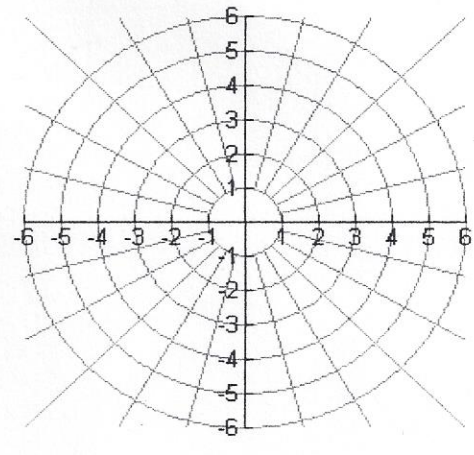
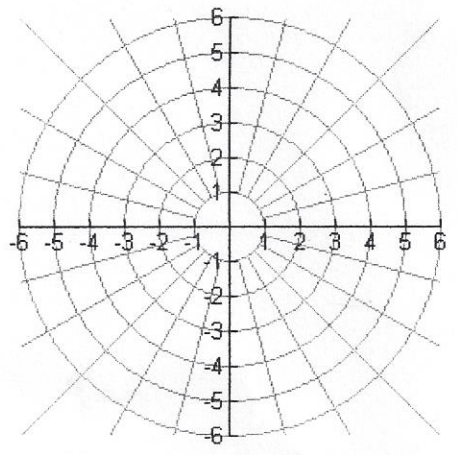


1) Convert from Rectangular to Polar Coordinates then graph

- A $(-3, 3\sqrt{3})$ B $(4, -4\sqrt{3})$ C $(0, -5)$ D $(-\sqrt{3}, 1)$ E $(5, -5)$

Graph then, Convert from Polar to Rectangular Coordinates.

- 2) F $(1, \frac{-\pi}{2})$ G $(6, 120^\circ)$ H $(4, -270^\circ)$ I $(2, \frac{\pi}{4})$ J $(3, \pi)$



3) Express each complex number in polar form.

- a) $4 + 5i$ b) $-1 - \sqrt{3}i$ c) $-4 + i$ d) $-2 + 4i$ e) $-4\sqrt{2}$

4) Graph each complex number. Then express it in rectangular form.

- a) $4(\cos \frac{\pi}{3} + i \sin \frac{\pi}{3})$ b) $\frac{3}{2}(\cos 2\pi + i \sin 2\pi)$ c) $3(\cos \frac{\pi}{4} + i \sin \frac{\pi}{4})$
 d) $2(\cos \frac{4\pi}{3} + i \sin \frac{4\pi}{3})$ e) $2(\cos \frac{5\pi}{4} + i \sin \frac{5\pi}{4})$ f) $5(\cos 0 + i \sin 0)$