Video Quiz 10

1. (2 pts.) Plot the following points in the polar coordinate system below.
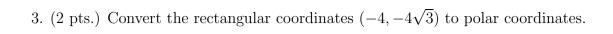
$$A = \left(5, -\frac{\pi}{6}\right), \quad B = \left(8, \frac{3\pi}{4}\right), \quad C = \left(-2, \frac{\pi}{2}\right), \quad D = \left(-4, -\frac{\pi}{3}\right)$$

2. (2 pts.) Change the polar coordinates to rectangular coordinates.

   (a) $A = (5, \pi)$ (b) $B = (-3, 120°)$

3. (2 pts.) Convert the rectangular coordinates $(-4, -4\sqrt{3})$ to polar coordinates.

4. (2 pts.) Change $x^2 + y^2 - 6x = 0$ from rectangular to polar form.

5. (2 pts.) Change $r = 8\cos\theta$ from polar to rectangular form.