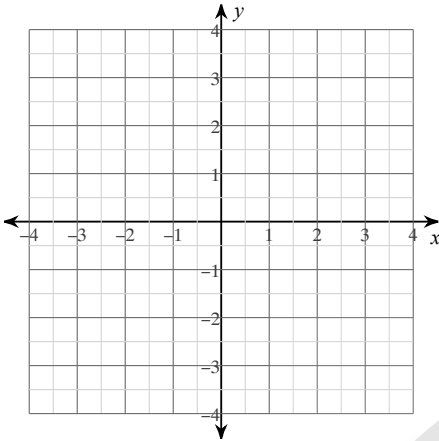
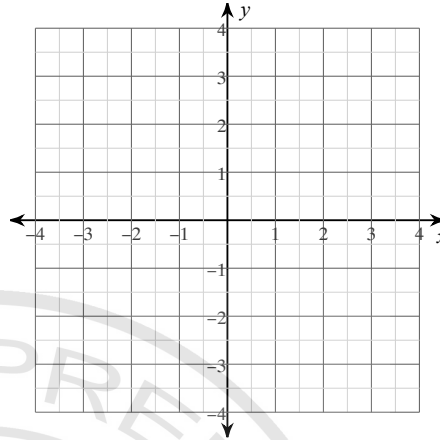


Convert each pair of polar coordinates to rectangular coordinates.

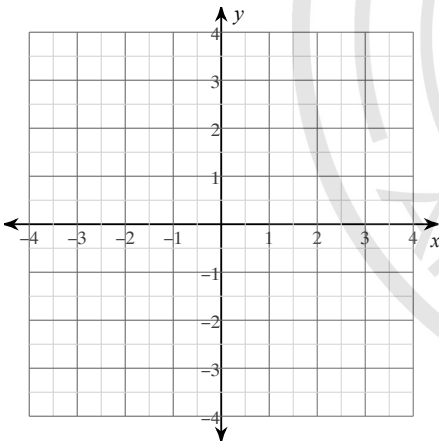
1)  $(4, 60^\circ)$



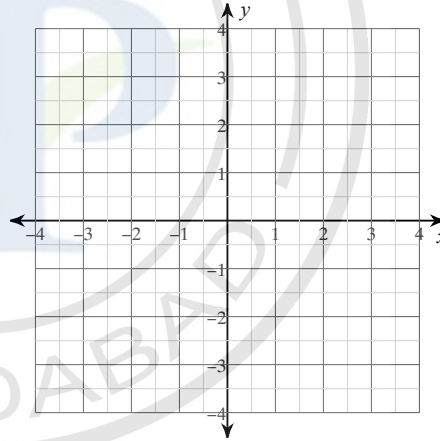
2)  $(3, \frac{\pi}{3})$



3)  $(4, \frac{7\pi}{4})$

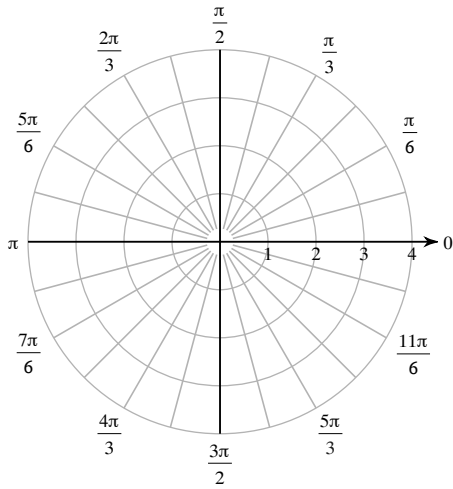


4)  $(2, 90^\circ)$

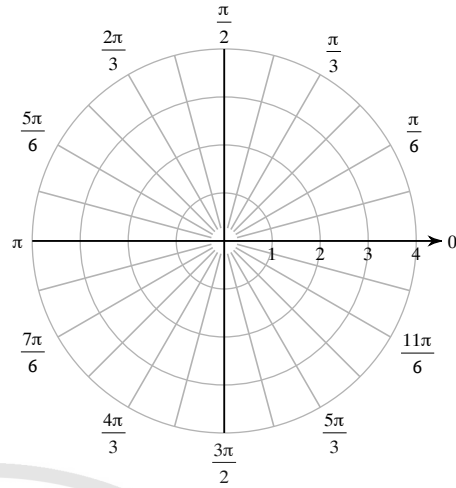


Convert each pair of rectangular coordinates to polar coordinates where  $r > 0$  and  $0 \leq \theta < 2\pi$ .

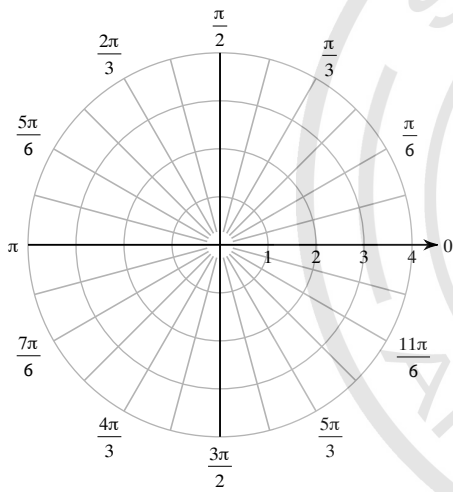
5)  $(-2\sqrt{3}, -2)$



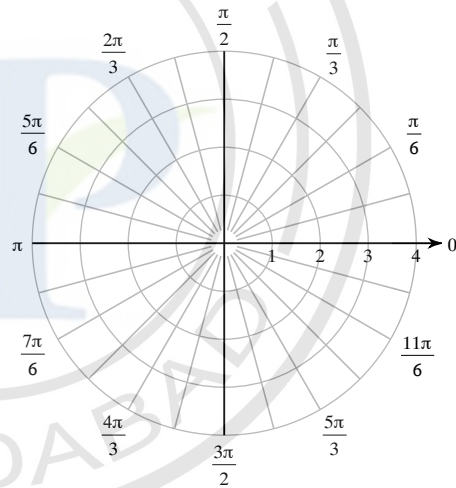
6)  $(0, 1)$



7)  $(-2, 0)$



8)  $\left(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)$



Answers to Assignment : Conversion of Co-ordinates cartesian to polar

1)  $(2, 2\sqrt{3})$

2)  $\left(\frac{3}{2}, \frac{3\sqrt{3}}{2}\right)$

3)  $(2\sqrt{2}, -2\sqrt{2})$

4)  $(0, 2)$

5)  $\left(4, \frac{7\pi}{6}\right)$

6)  $\left(1, \frac{\pi}{2}\right)$

7)  $(2, \pi)$

8)  $\left(1, \frac{7\pi}{4}\right)$

