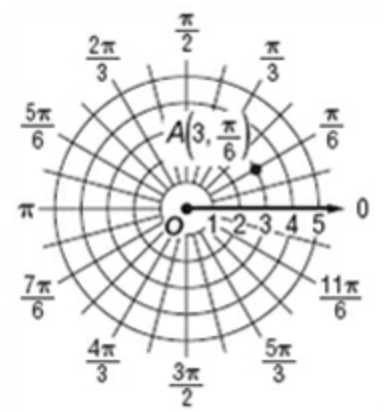


9-1 Polar Coordinates

Graph each point on a polar grid.

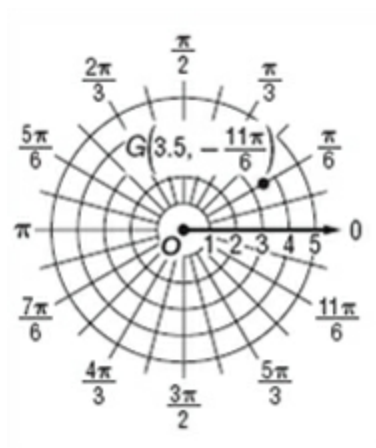
4. $A\left(3, \frac{\pi}{6}\right)$

ANSWER:



8. $G\left(3.5, -\frac{11\pi}{6}\right)$

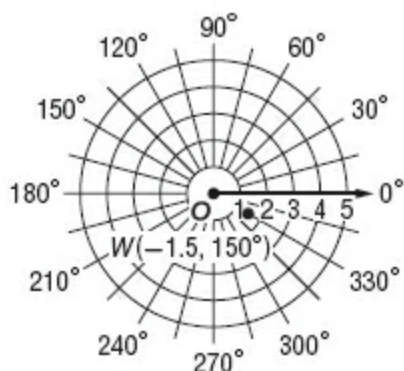
ANSWER:



9-1 Polar Coordinates

12. $W(-1.5, 150^\circ)$

ANSWER:



Find three different pairs of polar coordinates that name the given point if $-360^\circ \leq \theta \leq 360^\circ$ or $-2\pi \leq \theta \leq 2\pi$.

16. $\left(4, -\frac{7\pi}{6}\right)$

ANSWER:

$$\left(4, \frac{5\pi}{6}\right), \left(-4, \frac{11\pi}{6}\right), \left(-4, -\frac{\pi}{6}\right)$$

20. $(2, -30^\circ)$

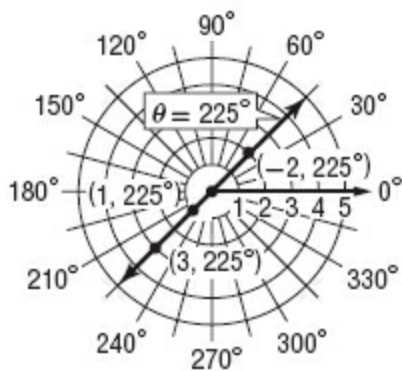
ANSWER:

$$(2, 330^\circ), (-2, 150^\circ), (-2, -210^\circ)$$

Graph each polar equation.

24. $\theta = 225^\circ$

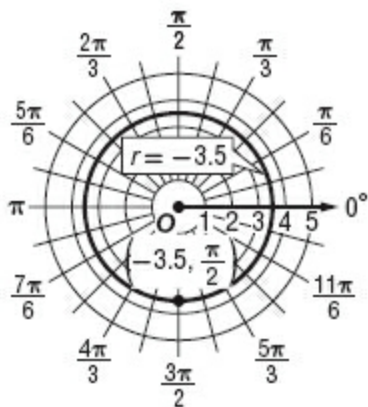
ANSWER:



9-1 Polar Coordinates

28. $r = -3.5$

ANSWER:



Find the distance between each pair of points.

32. $(6, 45^\circ), (-3, 300^\circ)$

ANSWER:

≈ 5.97

36. $(-2, -30^\circ), (8, 210^\circ)$

ANSWER:

≈ 7.21

40. $\left(8, -\frac{2\pi}{3}\right), \left(4, -\frac{3\pi}{4}\right)$

ANSWER:

≈ 4.26