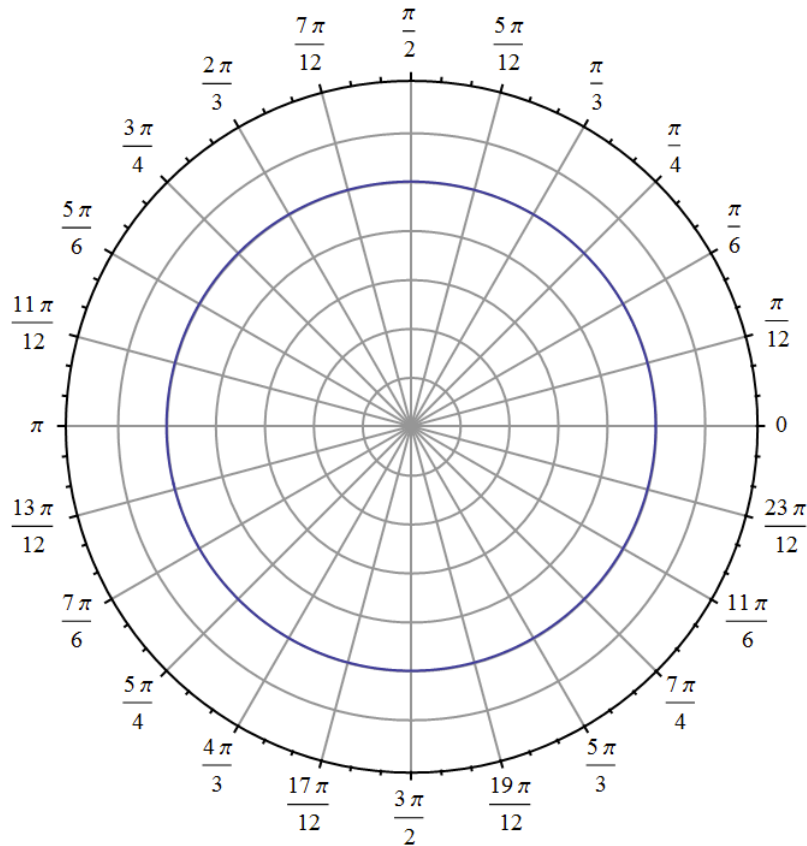


HW 6.6.1: Polar Coordinates



Plot each point and convert the given polar coordinates to Cartesian coordinates.

1. $\left(7, \frac{7\pi}{6}\right)$

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

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

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

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

6. $\left(5, -\frac{\pi}{3}\right)$

7. $\left(3, \frac{\pi}{2}\right)$

8. $(5, \pi)$



9. $\left(-3, \frac{\pi}{6}\right)$

10. $\left(-2, \frac{2\pi}{3}\right)$

11. $(3, 2)$

12. $(7, 1)$

Convert the given Cartesian coordinates to polar coordinates.

13. $\left(\frac{5\sqrt{3}}{2}, -\frac{5}{2}\right)$

14. $\left(-\frac{9\sqrt{2}}{2}, \frac{9\sqrt{2}}{2}\right)$

15. $(-5, 0)$

16. $(0, -8)$

17. $(4, 4\sqrt{3})$

18. $(-5\sqrt{2}, -5\sqrt{2})$

19. $(4, 2)$

20. $(8, 8)$

21. $(-4, 6)$

22. $(-5, 1)$

23. $(3, -5)$

24. $(6, -5)$