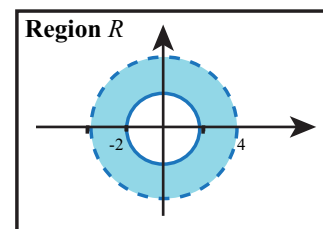
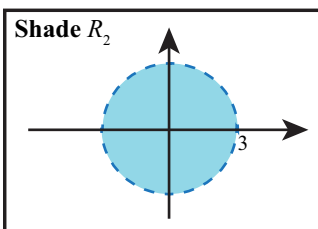
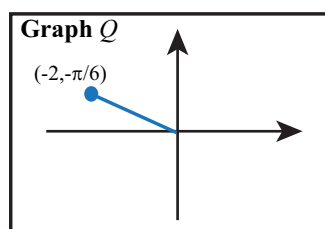
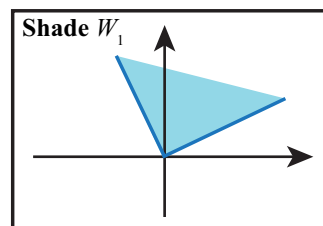
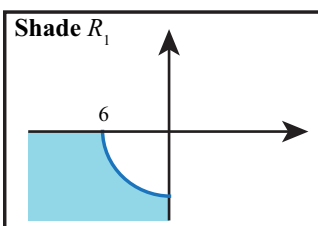
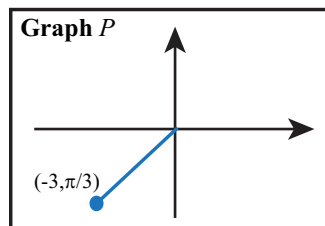


Polar Coordinates Worksheet - Answer Key



- Graph the point P , $(r, \theta) = (-3, \frac{\pi}{3})$.
- Graph the point Q , $(r, \theta) = (-2, -\frac{\pi}{6})$.
- Shade the region R_1 described by $r > 6$, $\pi \leq \theta \leq \frac{3\pi}{2}$.
- Graph the region R_2 : $r < 3$.
- Graph an wedge W_1 : $\frac{\pi}{5} \leq \theta \leq \frac{7\pi}{10}$
- Write the inequalities for r and θ that describe region R .
- Translate rectangular coordinates $(5\sqrt{3}, -5)$ into polar coordinates.
 $(10, \frac{11\pi}{6})$
- Translate polar coordinates $(2\sqrt{2}, \frac{5\pi}{4})$ into rectangular coordinates.
 $(-2, -2)$
- Translate rectangular coordinates $(-4, 4)$ into polar coordinates.
 $(4\sqrt{2}, \frac{3\pi}{4})$
- Translate polar coordinates $(4, \frac{2\pi}{3})$ into rectangular coordinates.
 $(-2, 2\sqrt{3})$

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