

Polar Coordinate Conversions

Give exact coordinates and angles. Preserve restrictions introduced while converting equations.

1. Give two coordinates equivalent to $(6, \pi/6)$, including one with negative r .

2. Convert $(-21, 28)$ to polar coordinates with r allowed to be negative.

Polar Coordinate Conversions

Give exact coordinates and angles. Preserve restrictions introduced while converting equations.

3. Convert $r \cos(\theta) = 11$ to rectangular form.

4. Convert $x^2 + y^2 = 12x$ to polar form and preserve the original curve.

Name _____ Score _____ Teacher _____ Date _____

Polar Coordinate Conversions

Give exact coordinates and angles. Preserve restrictions introduced while converting equations.

5. Convert $(3, \pi/6)$ to rectangular coordinates.

6. Give two coordinates equivalent to $(4, \pi/4)$, including one with negative r .

Polar Coordinate Conversions

Give exact coordinates and angles. Preserve restrictions introduced while converting equations.

7. Convert $(5, 2\pi/3)$ to rectangular coordinates.

8. Convert $x = 16$ to polar form and state any division restriction.