

NAME: _____

ANSWERS

DATE: 01/20/2023

Write the following parametric equations in rectangular form:

1. $x = 3t$, $y = 4t^2 - 4$

$$\frac{x}{3} = t$$

$$y = 4\left(\frac{x}{3}\right)^2 - 4$$

$$y = 4\left(\frac{x^2}{9}\right) - 4$$

$$y = \frac{4}{9}x^2 - 4$$

2. $x = 4\cos(t)$, $y = 5\sin(t)$

$$\frac{x}{4} = \cos t, \quad \frac{y}{5} = \sin t$$

$$\sin^2 t + \cos^2 t = 1$$

$$\left(\frac{y}{5}\right)^2 + \left(\frac{x}{4}\right)^2 = 1$$

$$y^2/25 + x^2/16 = 1$$

OR

$$16y^2 + 25x^2 = 400$$

Convert each of the following points in rectangular coordinates to polar coordinates:
(Q3 and Q4) [r-2 dec. places. θ -2dec. places radians]

3. $(-2, 4)$

$$r = \sqrt{x^2 + y^2}$$

$$= \sqrt{(-2)^2 + 4^2}$$

$$= \sqrt{4 + 16}$$

$$= \sqrt{20} = 4.47$$

$$\tan \theta = \frac{y}{x} = -2$$

$$\theta_{\text{ref}} = \tan^{-1}(2)$$

$$= 1.107$$

$$\theta = \pi - \theta_{\text{ref}} = \pi - 1.107$$

$$= 2.0345$$

$$\approx 2.03$$



4. $(3, 5)$

$$r = \sqrt{3^2 + 5^2}$$

$$= \sqrt{9 + 25}$$

$$= \sqrt{34} = 5.83$$

$$\tan \theta = \frac{y}{x}$$

$$= 1.03$$

$$(5.83, 1.03)$$

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