

Math 116 Practice Exam 3 Answers

1)

a) $y = -\left(\frac{x+5}{9}\right) + 22$

b) $\frac{x^2}{49} + \frac{y^2}{81} = 1$

2) $y - 1 = \frac{\pi}{2}x$

3)

a) $\int_0^{\frac{\pi}{15}} \sqrt{(-6 \sin(6t) - 6 \sin(t))^2 + (6 \cos(6t) + 6 \cos(t))^2} dt$

b) $\frac{12}{5} + 1$

4)

a) $c = 3$

b) $R = \frac{1}{5}$

5) $3 - \frac{1}{5} \leq x < 3 + \frac{1}{5}$