

Math 116 Winter 2011 Exam 3 Answers

1) a) $y = \frac{1}{(x-1)^2}$

b) $\frac{x^2}{25} + \frac{y^2}{121} = 1$

2) $y + 1 = \frac{4}{\sqrt{3}} \left(x + \frac{\pi}{3} \right)$

3) $\frac{\pi^2}{2}$

4) a) 2

b) 7

5) $(-5, 9]$

6) $\sum_{n=0}^{\infty} \frac{(-1)^n x^{6n+2}}{(2n)!}$