Math 116 Practice Exam 3 Answers

1) a) $y = 2 - 2x^2$

b) $y = 2 - 2x^2$

2) $y - 1 = -\dfrac{\pi}{8}(x - 3)$

3) a) $c = 6$

b) $R = \dfrac{1}{4}$

4) $[23/4, 25/4]$

5) $\displaystyle\sum_{n=0}^{\infty} \frac{5 \cdot (-1)^n x^{2n+1}}{n!}$

6) a) No, thanks,

b) $\theta = 0, \pi/2$

c) $\dfrac{1}{2} \displaystyle\int_0^{\pi/2} \left(\cos^2(\theta) - (1 - \sin(\theta))^2 \right) d\theta$