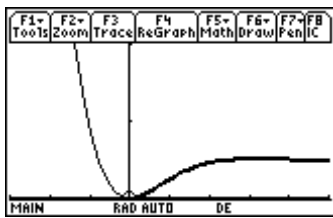


8.



$[-3, 5] \times [0, 2]$

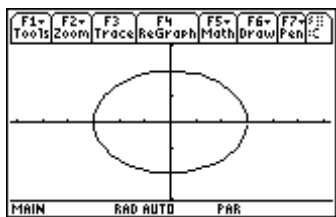
$$y = \left(\frac{-\cos x}{2} - \frac{\sin x}{2} \right) e^{-x} + \frac{1}{2}$$

9. About 379 feet

10. No

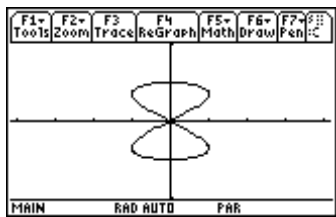
Chapter 8

1.



- (a)
- (b) .667
- (c) $-\frac{2}{3}$
- (d) 15.8654

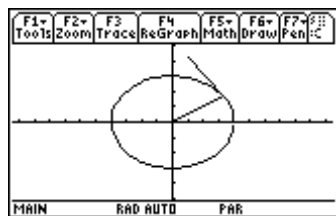
2.



- (a)
- (b) 0
- (c) 0
- (d) 9.42943

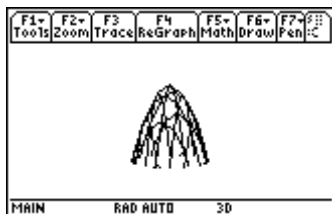
3. About 389 feet

4.



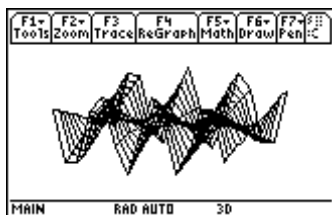
5. 1.921

6.



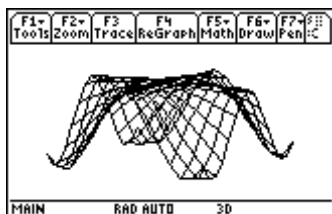
(a)

standard window



(b)

standard window



(c)

[-2,2] x [-2,2] x [-1,1]

Chapter 9

1. Converges to 0.
2. Converges to 0.
3. Diverges.
4. Converges to -0.693 ($\ln(1/2)$).
5. Converges to 2.718 (e).
6. Converges to 3.141 (π).
7. Converges to 2.
8. Diverges.

$$9. \frac{x^8}{315} - \frac{2x^6}{45} + \frac{x^4}{3} - x^2 + 1$$

10. Same result as Exercise 9.

$$11. \frac{(x-1)^5}{5} - \frac{(x-1)^4}{4} + \frac{(x-1)^3}{3} - \frac{(x-1)^2}{2} + (x-1)$$

$$12. \frac{(2x-\pi)^4}{384} - \frac{(2x-\pi)^2}{8} + 1$$