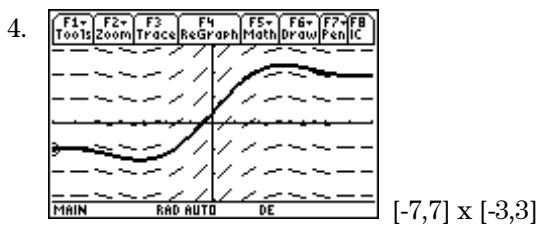
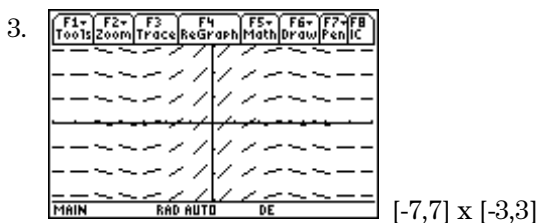
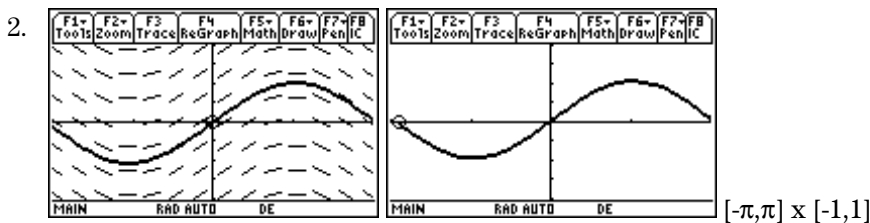
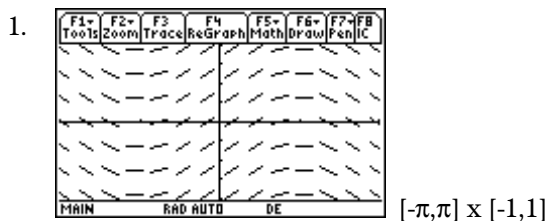
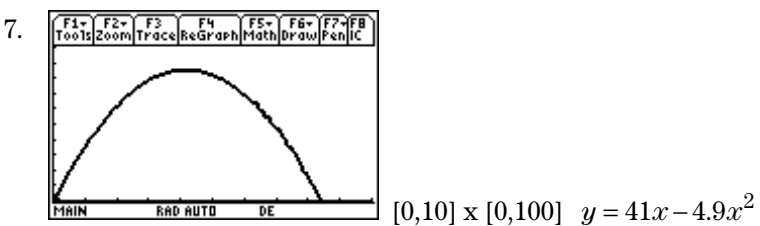


### Chapter 7

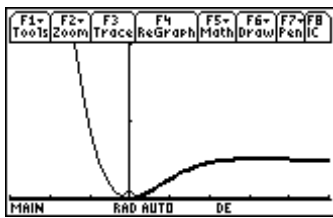


5. 5700 years

6. about 13,200 years



8.



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

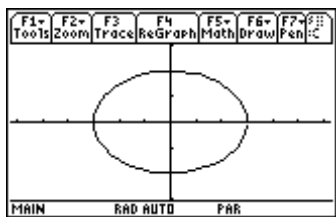
$$y = \left( \frac{-\cos x}{2} - \frac{\sin x}{2} \right) e^{-x} + \frac{1}{2}$$

9. About 379 feet

10. No

### Chapter 8

1.



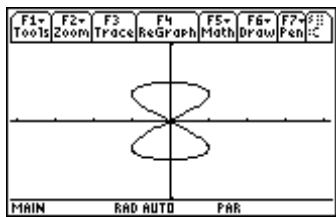
(a)

(b) .667

(c)  $-\frac{2}{3}$

(d) 15.8654

2.



(a)

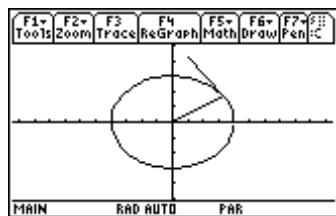
(b) 0

(c) 0

(d) 9.42943

3. About 389 feet

4.



5.

1.921