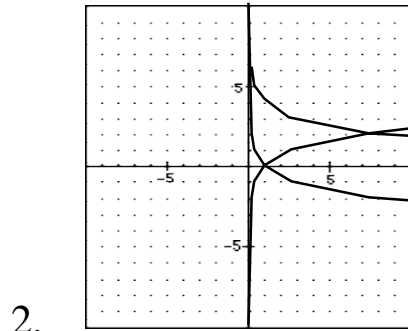


Problem Set 97 — Even Answers



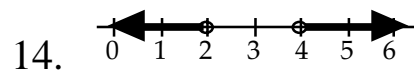
4. $t = \frac{\ln 10}{\ln 1.11} \approx 22.064$ years

6. 251.189 times

8. run 48 miles, walk 48 miles

10. $(\pm 2 + \sqrt{5}, 2 + \sqrt{5})$
 $(\pm 2 - \sqrt{5}, 2 - \sqrt{5})$

12. (3, 2, -2)



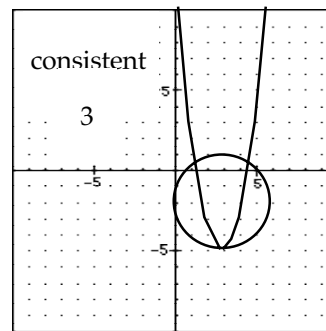
16a. $x = 2$

b. $x = 5$

18. $x = \frac{1}{2}$

20. $x = 4$

22. $\begin{bmatrix} 2 & -3 \\ -3 & 11 \end{bmatrix}$



24.

26. $y = \frac{4x + 3}{x - 1}$

28. $\approx 2 \times 10^3$ 2683.878

30. $A = \frac{100}{\pi} \approx 31.831 \text{ cm}^2$