

Problem Set 79 — Even Answers

2. $\frac{3}{\tan 35^\circ} \approx 4.284 \text{ ft}$

4. $x = \frac{13}{6}$

6. $x = -3, 4$ 8. $x = 9$

10a. 16 b. $\frac{1}{64}$

c. 2.512×10^{12}

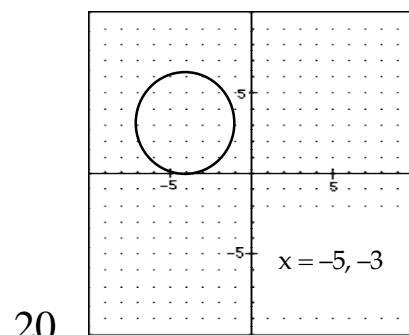
12a. $x = \frac{1}{2}$ b. $x = 16$

c. $x = -\frac{1}{2}$

14. $K = 0.935 \text{ Ra} - 1448.598$

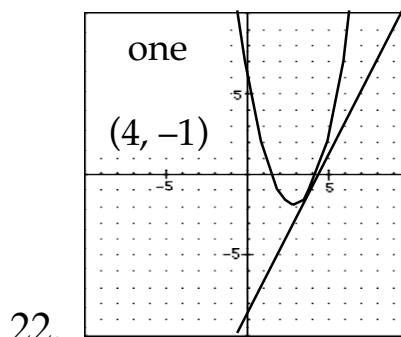
16. $y = \frac{bcmx}{m - acm}$

18. $\frac{5\sqrt{14}}{2} - \sqrt[3]{3}$



$$Y_1 = 3 + \sqrt{10 - (x + 4)^2}$$

$$Y_2 = 3 - \sqrt{10 - (x + 4)^2}$$



24a. $(f \circ g)(x) = \sqrt[3]{x + 3}$

b. $(f \circ g)^{-1}(x) = x^3 - 3$



26. $x = -2, \frac{1}{3}$

28. $h = 5\sqrt{3} \approx 8.660$
 $A = 25\sqrt{3} \approx 43.301$

