

Problem Set 90 — Even Answers

2. 75

4. 10 red, 5 blue

6a. -1, 2, 5, 8, 11

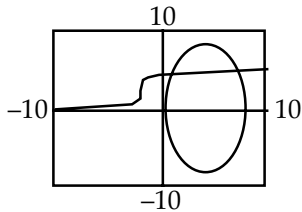
b. -1, -3, -7, -15, -31

c. -2, -3, -5, -9, -17

8. $a_{20} = -75$

10. $\left(-\frac{1}{8}, \frac{7}{4}\right)$

12. $\left(\frac{8}{5}, \frac{6}{5}\right), \left(-\frac{8}{5}, -\frac{6}{5}\right)$



14.

$(0.654, 4.385), (7.087, 5.087)$

16. $Y_1 = -1 + \sqrt{(x-2)^2 + 4}$
 $Y_2 = -1 - \sqrt{(x-2)^2 + 4}$

18. $x = 15 - 4\sqrt{14} \approx 0.033$

20a. 2 b. 3 c. 2.699

22. $y = 0.657x + 0.223$

24. $\frac{-6x^2 - 20x - 3}{(2x+7)(x-2)}$

26. $-23 + 4i$

28. $SA = 144\pi \text{ in}^2 \approx 452.389 \text{ in}^2$

30. $L = \frac{20}{3}\pi \text{ cm} \approx 20.944 \text{ cm}$