

Problem Set 92 — Even Answers

2. class project

4. 15,380,937 5040

6. 97.7%

8a. ≈ 2.303

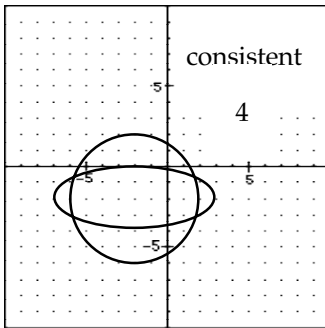
b. 1

c. ≈ 3.912

d. ≈ 1.699

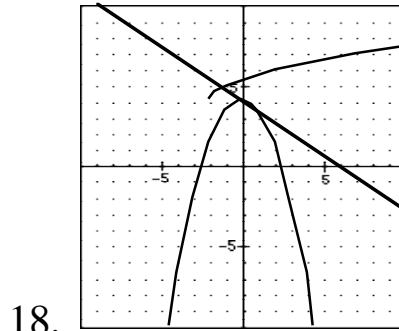
10. $x = 4$

12. $a_{n+1} = a_n - 3, \quad a_1 = 17$
 $a_{20} = -40$



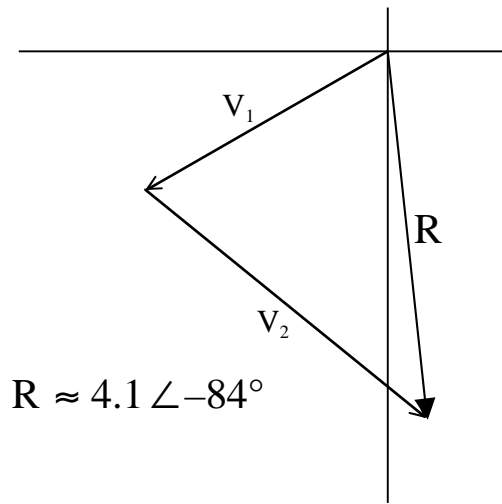
14.

16. $\left(\frac{24}{5}, -\frac{18}{5}\right), \left(\frac{18}{5}, \frac{24}{5}\right)$



18.

20.



$R \approx 4.1 \angle -84^\circ$

22.
$$\frac{2x^3 + 6x^2 + 4x + 3}{x(x+3)(x-3)}$$

24.
$$y = \frac{4}{3}x + \frac{34}{3}$$

26. $\approx 3 \times 10^4$
26,472.411

28.
$$x^2 - x + \frac{2}{3x+2}$$

30. $r = \frac{7}{\cos 40^\circ} \approx 9.138$
 $y = 7 \tan 40^\circ \approx 5.874$