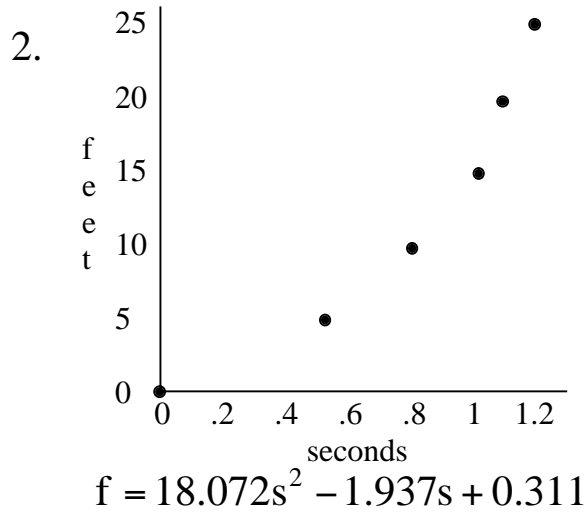


Problem Set 95 — Even Answers



4. \$218.99

6. 12

8. $\frac{120(100)^3}{60(2.54)^3(12)^3} \approx 70.629 \frac{\text{ft}^3}{\text{min}}$

10. $x = \log 34 - 3 \approx -1.469$

12. $\begin{bmatrix} 12 & -18 \\ -30 & 24 \end{bmatrix}$

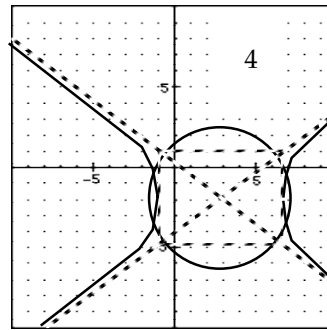
14. $\begin{bmatrix} 2 & 12 \\ -5 & -23 \end{bmatrix}$

16. (1, 2, -2)

18. $\left(\frac{1}{2} + \frac{\sqrt{3}}{2}, -\frac{1}{2} + \frac{\sqrt{3}}{2}\right)$
 $\left(\frac{1}{2} - \frac{\sqrt{3}}{2}, -\frac{1}{2} - \frac{\sqrt{3}}{2}\right)$

20a. 5.173

b. 1.905×10^{-12}



22.

24. $a_n = a_{n-1} + 3, \quad a_1 = -1$
 $a_n = -1 + 3(n-1)$
 $a_{22} = 62$

26. $\approx 2.692i + 3.553j$
 $\approx 4.458 \angle 52.856^\circ$

28. $-\frac{15}{17} - \frac{8}{17}i$

30. $5 \cdot \sqrt[3]{3} + 2$