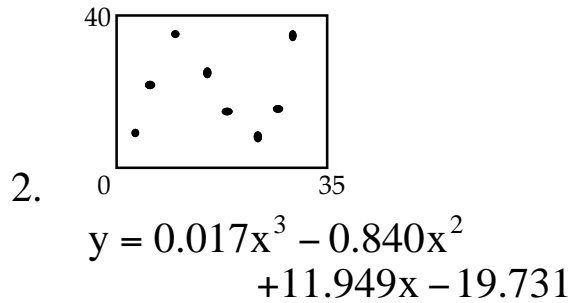
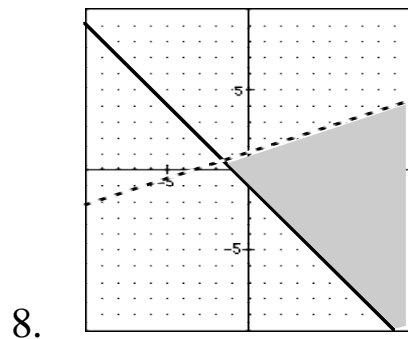
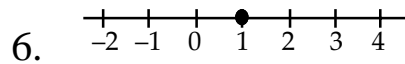


Problem Set 98 — Even Answers



The scatter plot has both a high point and a low point so a cubic seemed appropriate.

4. $R_K = 50, \quad T_K = 24$
 $R_D = 60, \quad T_D = 6$



10. $\left(\frac{4}{5}, -\frac{3}{5}\right), (0, -1)$

12. $(2, 1, 3)$

14. $x = \frac{\frac{\ln 153}{2} + 1}{\ln 7} \approx 1.793$

16. $\frac{-6x^3 - 7x + 8}{(2x - 1)(x + 3)(x - 3)}$

- 18a. neither
 b. geometric
 c. arithmetic
 d. neither

20. $7 \angle 10^\circ$
 $7 \angle -350^\circ$
 $-7 \angle -170^\circ$

22. $x = -\frac{1}{10} \pm \frac{\sqrt{101}}{10}$
 $\approx -1.105, 0.905$

24. $2^{\frac{52}{21}}$

26. $2x^6y^{11}$

- 28a. $x = 6$
 b. $x = 11$

30. $x = 5, \quad y = 12$
 $P = 80$