

Problem Set 73 — Even Answers

2. $2.5 \times 10^6 \text{ n/m}^2$

4. 40 ml of 10%
10 ml of 40%

6. $\left(\frac{33}{4}, -4\right)$

8. $\approx (4.472, 26.565^\circ)$

10. $y = -\frac{7}{4}x + \frac{71}{4}$
 $x = \frac{71}{7}, \quad y = \frac{71}{4}$

12. $x = -\frac{5}{4} \pm \frac{\sqrt{7}}{4}i$

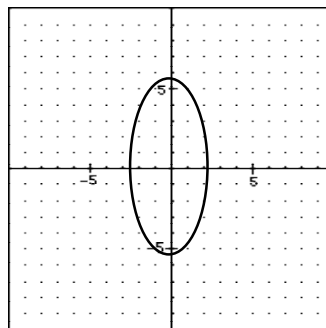
14. 1 rational solution

16a. $x = 2$

b. $x = 8$

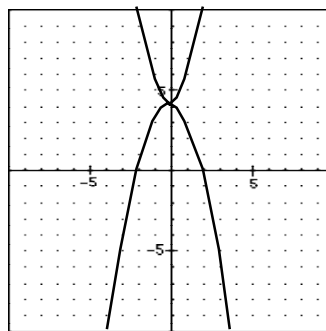
c. $x = 9$

18.



$$Y_1 = \sqrt{30 - 5x^2}, \quad Y_2 = -Y_1$$

20.



22. $x = \frac{am + bm}{km - y}$

24. $1 + i$

26. $\sigma = \sqrt{\frac{190}{3}} \approx 7.958$

28. $16x^4 + 32x^3y + 24x^2y^2 + 8xy^3 + y^4$

30. $x = 5, \quad y = 10$