

Problem Set 71 — Even Answers

2. 100 N/m^2

4. $5, 7, 9, 11$ or $-5, -3, -1, 1$

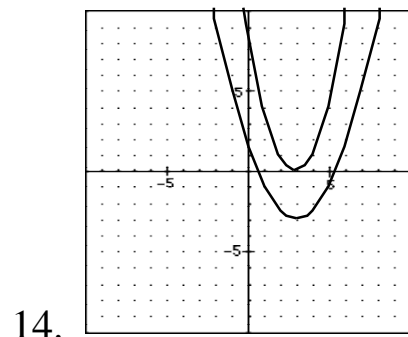
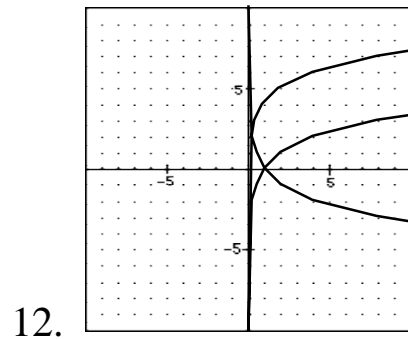
6. 60 miles

8. $P(J \cup T) = \frac{12}{25}$

10a. $4^3 = 64$

b. $8^{\frac{4}{3}} = 16$

c. $b^t = k$



16. major = $4\sqrt{15} \approx 15.492$
minor = $4\sqrt{6} \approx 9.798$

18. $-1 + 4i$

20. $\frac{x - 5}{2(x - 3)}$

22. $\frac{40(60)(1000) \text{ ft}^3}{(2.54)^3(12)^3} \frac{\text{hr}}{\text{hr}}$
 $\approx 84.755 \frac{\text{ft}^3}{\text{hr}}$

24. $(7.071, -7.071)$

26. $x = 1 \pm \frac{\sqrt{3}}{3} \approx 0.423, 1.577$

28. $A = 75$

$H = \frac{7}{\cos 75^\circ} \approx 27.046$

30. $t = \frac{119}{99}$