

Problem Set 84 — Even Answers

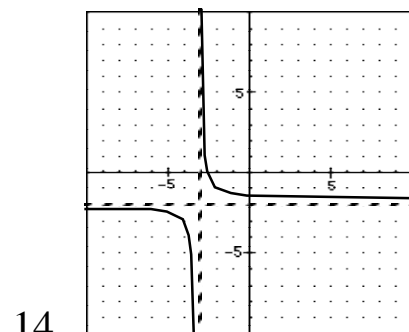
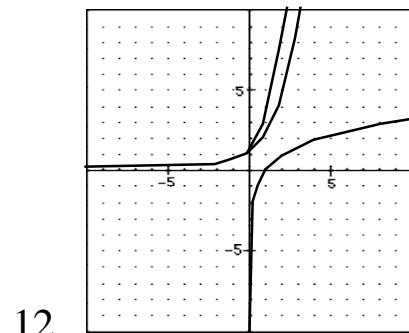
2. 3 troubles

4. 40 liters of 30%
10 liters of 80%

6. 6' 11"

8a. 1.090×10^{14}
b. 30,045,015
c. 30,045,015

10. 15,504



$$f^{-1}(x) = \frac{1}{x+2} - 3$$

16. (12, 20)

18. $x = \frac{1}{3}, -3$

20. $\approx -26.481i + 14.959j$
 $\approx 30.414 \angle 150.538^\circ$

22. $d = -23$
2 imaginary solutions
 $x = -\frac{1}{4} \pm \frac{\sqrt{23}}{4}i$

24. -352

26. $x^{3b}y^{\frac{3a}{4}}$

28. $2^{\frac{25}{6}}$

30. $x = 10$