

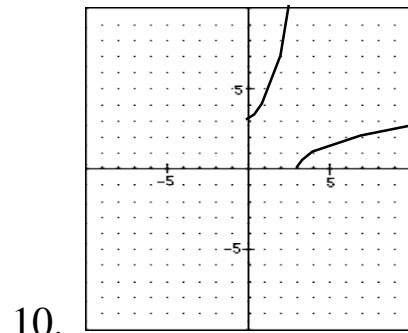
Problem Set 66 — Even Answers

2. Frank = 32, Judy = 28

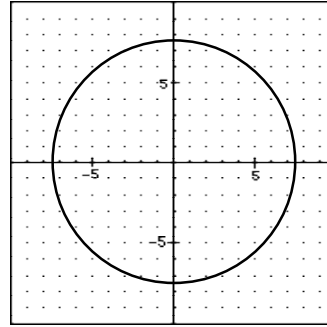
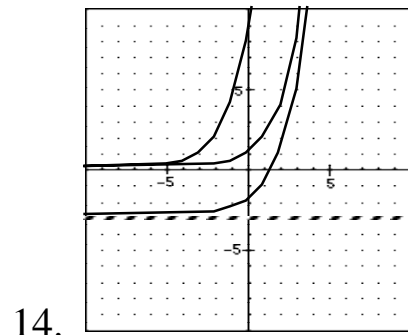
4. 100 ml of 40%
50 ml of 10%

6. walk 8 km, ride 40 km

8. $f^{-1}(x) = \frac{4x}{2-x}$



12. $\frac{20(12)^2(2.54)^2}{1000} \approx 566.337$



16. $Y_1 = \sqrt{7.6^2 - x^2}, Y_2 = -Y_1$

18. ≈ 4.272

20. $x = \frac{1}{2} \pm \frac{\sqrt{5}}{2} \approx -0.618, 1.618$

22. $x = \frac{41}{16}$

24. 0

26. $x + 3x^{\frac{2}{3}}y^{\frac{1}{3}} + 3x^{\frac{1}{3}}y^{\frac{2}{3}} + y$

28. $\frac{6 + 4\sqrt{2}}{-3}$

30. $V = \frac{256\sqrt{3}}{3} \text{ ft}^3 \approx 147.802 \text{ ft}^3$
 $SA = 192 \text{ ft}^2$