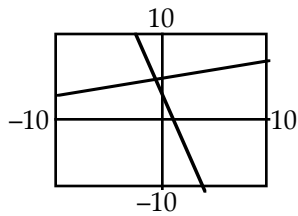


Problem Set 30 — Even Answers

2. 600 km

4. 100 quarters
100 half-dollars

6. 50 boys, 10 girls



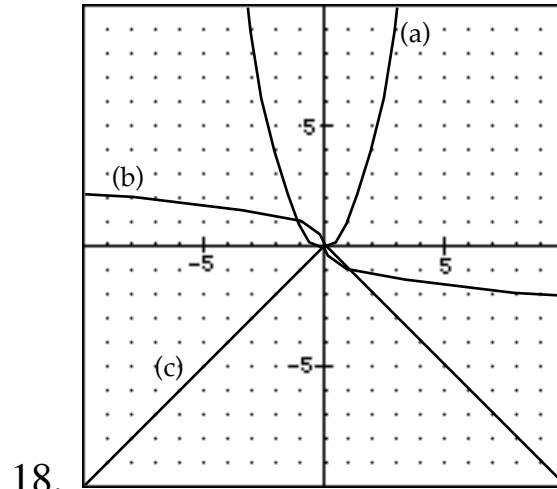
8. $(-1.050, 4.550)$

10. $a = \frac{70}{13}$, $b = 3.6$

12. $SA = (368 + 40\pi) \text{ cm}^2$
 $\approx 493.664 \text{ cm}^2$

14. $V = 36\pi \text{ in}^3 \approx 113.097 \text{ in}^3$
 $SA = 36\pi \text{ in}^2 \approx 113.097 \text{ in}^2$

16. $y = \frac{2}{3}x + \frac{26}{3}$



18.

20a. $P(2) = \frac{1}{36}$

b. $P(2, 2, 2) = \frac{1}{46,656}$

22. $x = 7$

24. $\frac{ck^2p + 2c^2p^2 - 8}{2cp^2}$

26. $20\sqrt{5} - 12$

28. 6×10^{14}

30. $\frac{1}{3}$