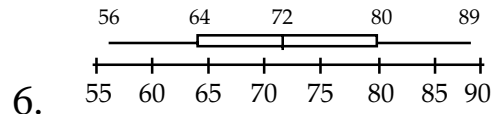


Problem Set 55 — Even Answers

2. $P(A \cup R) = \frac{7}{13}$

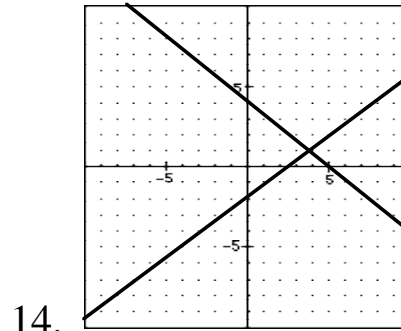
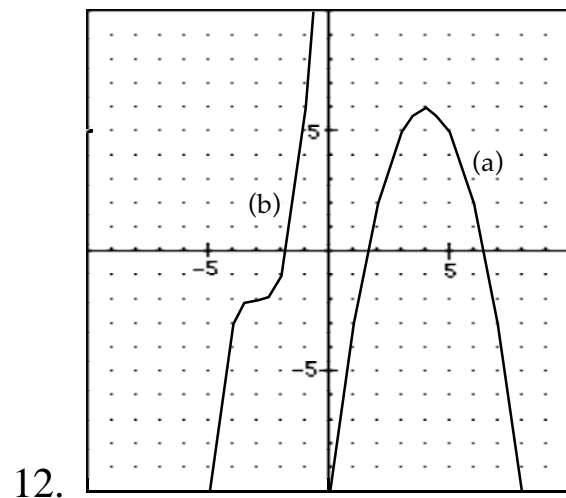
4. 3024



6. range = 33, median = 72
 $Q_1 = 64,$ $Q_3 = 80$

8. $f(g(x)) = 12x + 7$
 $f(g(4)) = 55$
 $\{x \in \mathfrak{R}\}$

10. $(f \circ h)(x) = \sqrt{x - 6}$
 $(f \circ h)(10) = 2$
 $\{x \in \mathfrak{R} \mid x \geq 6\}$



$\approx (3.9, 0.9)$

16a. $(fg)(x) = \frac{x-3}{x-2}$

b. $\{x \in \mathfrak{R} \mid x \neq 2\}$

c. $(fg)(-1) = \frac{4}{3}$

18. $x = -1, 6$

20. $x = -\frac{3}{4}, 1$

22. $x = -8, 6$

24. $A \approx 48.190^\circ,$ $B \approx 41.810^\circ$
 $x = 2\sqrt{5} \approx 4.472$

26. 1.054×10^4

28. $27x^3 + 54x^2y + 36xy^2 + 8y^3$

30. $A = \frac{8}{3}\pi \text{ cm}^2 \approx 8.378 \text{ cm}^2$

$L = \frac{8}{3}\pi \text{ cm} \approx 8.378 \text{ cm}$