

## Problem Set 67 — Even Answers

2. 21, 24, 27

4. 348 g, 91.954%

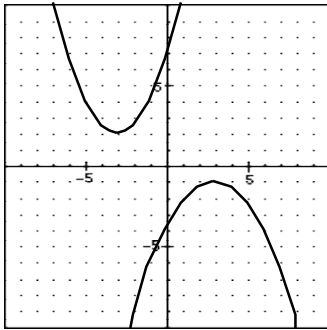
6. 100 ml

8.  $1.146^\circ$

10. (2.796, 4.145)

12. (6.642, -15.649)

14.  $f^{-1}(x) = \frac{4x+3}{5x+2}$



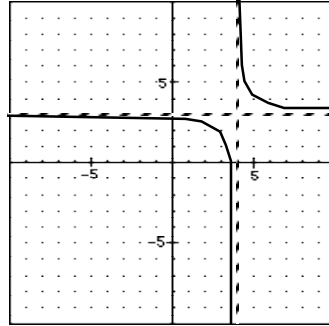
16.

18a.  $f: \{x \in \mathcal{R} \mid x \neq 0\}$

$g: \{x \in \mathcal{R}\}$

b.  $f(g(x)) = \frac{1}{x-4} + 3$

c.  $\{x \in \mathcal{R} \mid x \neq 4\}$



d.

20a. 0.001459 kg

b. 0.468 Dm

c. 0.237 l

22.  $\sigma = \sqrt{\frac{101}{3}} \approx 5.802$

24.  $y = \frac{5}{9}x + \frac{43}{9}$

26.  $x = \pm \frac{5}{6}$

28.  $3^{\frac{21}{8}}$

30. 10