

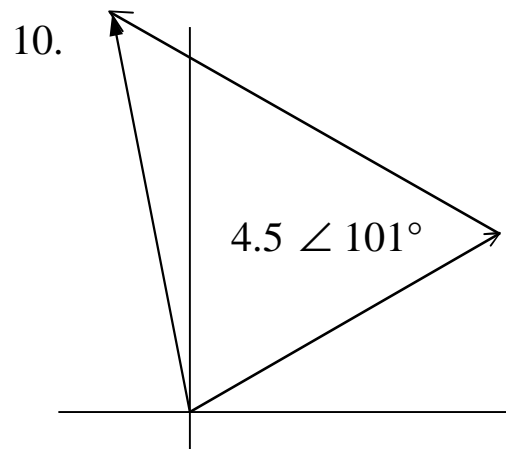
Problem Set 85 — Even Answers

2. 48 kg

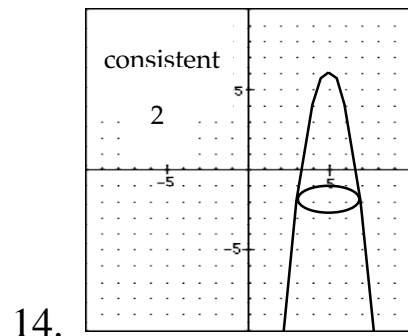
4. $-9, -7, -5$ or $-5, -3, -1$

6. 1365

8. $4.4 \angle 209^\circ$



12. $\approx 2.936i + 2.571j$
 $\approx 3.903 \angle 41.211^\circ$



16. 4 grams Boron
 245 grams Aluminum

18a. between -2 and -3 : -2.244

b. between -1 and 0 : -0.244

c. between 1 and 2 : 1.756

20. $(2, 3, 1)$

22. $x = -3, \frac{5}{3}$

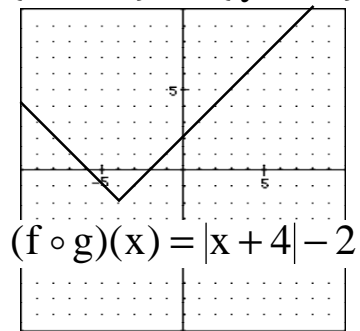
24. $100(60)(12)^3(2.54)^3 \frac{\text{cm}^3}{\text{min}}$
 $\approx 169,901,079.6 \frac{\text{cm}^3}{\text{min}}$

26. see PS 58 # 9

$$x = -\frac{3}{2} \pm \frac{\sqrt{11}}{2}$$

$\approx -3.158, 0.158$

28a. $\{x \in \mathcal{R}\}, \{y \in \mathcal{R}\}$



b.

c. $\{x \in \mathcal{R}\} \{y \in \mathcal{R} \mid y \geq -2\}$

30. $\frac{10}{11} - \frac{7\sqrt{2}}{11}i$