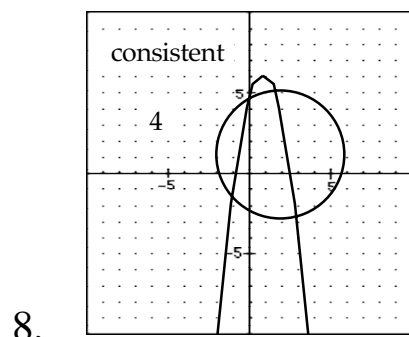


Problem Set 82 — Even Answers

2. 2055 yards at 70.404°

4. 276 g, 32.394%

6. $h = \frac{5}{\pi} \text{ m} \approx 1.592 \text{ m}$



10. $x = \frac{5}{4} \pm \frac{\sqrt{65}}{4}$
 $x \approx -0.766, 3.266$
 same

12. (37, 20)
 consistent

14. (1, 3, 4)

16. See PS 58 # 9

18. $H = -7C + 818$

20. $\approx -9.102i + 4.052j$
 $\approx 9.963 \angle 156.002^\circ$

22. $x = 0, 1 \pm \sqrt{7}$
 $\approx 0, \pm 1.646, 3.646$

24a. 1
 b. 8
 c. 29.512

26. $s = 9 \text{ m}$
 $A = 81 \text{ m}^2$
 $A = \frac{81}{2} \text{ m}^2$
 $A = \frac{81}{4} \pi \approx 63.617 \text{ m}^2$

28. $c = 10.4$

30. $x = \frac{49}{16}, y = 97$