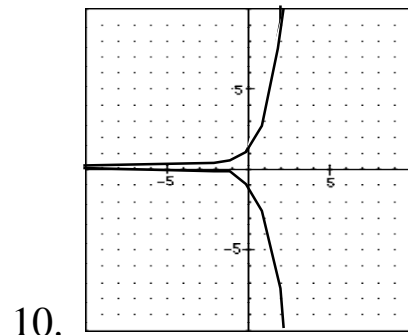
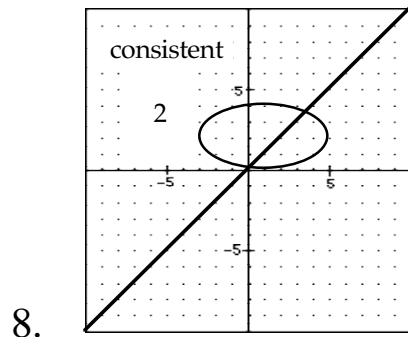


Problem Set 83 — Even Answers

2. 90 rpm's

4. 0.116 liters

6. 20 sedimentary, 60 igneous



12.
$$\frac{(x-3)^2}{9} + \frac{(y+2)^2}{36} = 1$$

14. $(1, -3)$

16. $\left(3, -\frac{6}{7}\right)$

18. $x = -\frac{1}{17}$

20. $\approx 7.638i + 1.412j$
 $\approx (7.768, 10.473^\circ)$

22. a and b

24a. between -2 and -1 : -1.538

b. between 0 and 1 : 0.462

c. between 2 and 3 : 2.462

26.
$$x = \frac{art - cmt - cmr}{mt + mr}$$

28. $x = 10, \quad y = 5$

30. $5 + 12i$