

Problem Set 80 — Even Answers

2. 0.243 moles

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

6. 20 dogs, 10 cats

8. $(-152, -76, 30)$

10. $x = \frac{13}{3}$

12. $x = -2$

14. $\approx 11.723i + 7.614j$
 $\approx (13.979, 33.002^\circ)$

16. $\approx 3.392i + 3.880j$
 $\approx 5.154 \angle 48.840^\circ$

18. $\frac{4x+9}{x-3}$

20a. $\frac{1}{25}$

b. 3

c. 2818.383

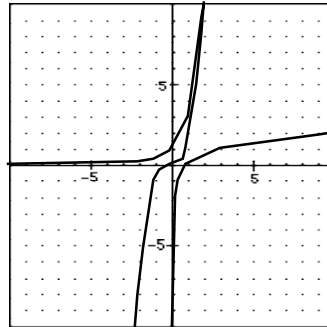
22. $\frac{(x+4)^2}{25} + \frac{(y-2)^2}{9} = 1$

$$Y_1 = 2 + \sqrt{9 - 0.36(x+4)^2}$$

$$Y_2 = 2 - \sqrt{9 - 0.36(x+4)^2}$$

$$x = -7.727, -0.273$$

24. $x = \frac{5}{6} \pm \frac{\sqrt{59}}{6} i$



26.

28. $6x^{\frac{7}{4}}y^{\frac{7}{4}}$

30. $y = -x - 5$