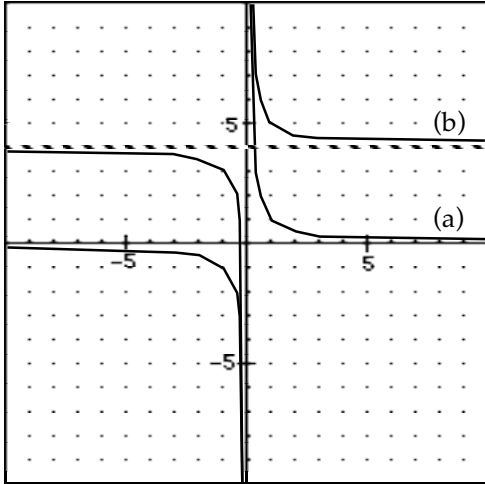


Problem Set 42 — Even Answers

2. $R_C = 4$ mph, $T_C = 8$ hr
 $R_T = 12$ mph, $T_T = 6$ hr

4. 20°



6.

8. $\{x \in \mathfrak{R} \mid x \geq -4, x \neq 0\}$

10a. $4x^4 + 2x^3 - 4x - 2$

b. $x^2 - \frac{1}{2}x + \frac{1}{4} - \frac{9}{2x+1}$

12. $x = 0, \frac{9}{4}$

14. $x = 3 \pm \sqrt{5} \approx 0.764, 5.236$

16. $x = -\frac{2}{3}, 5$

18. $\frac{-8 - 2\sqrt{5}}{11}$

20. 0

22. $6 + 2\sqrt[3]{2}$

24a. $\frac{1}{3}$
 b. -9

26. $x^{19/12}y^{29/12}$

28. $\frac{4ab + 4 + bc}{c(ab + 1)}$

30. $-6y$