

## Problem Set 39 — Even Answers

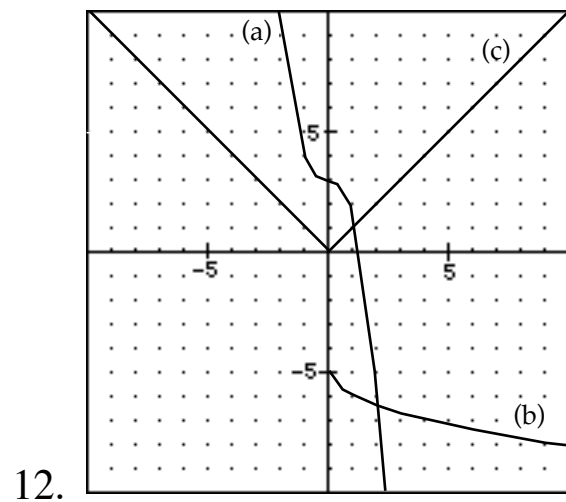
2.  $R_T = 3.5$  mph,  $T_T = 8$  hr  
 $R_B = 7$  mph,  $T_B = 4$  hr

4. 500 kg

6.  $a = \sqrt{61}$ ,  $b = \frac{65}{6}$ ,  $c = \frac{7\sqrt{61}}{6}$

8. 8 m, 2 m,  $4\pi$  m<sup>2</sup>

10. A = 40, B = 40, C = 80  
D = 40, E = 50, F = 50



14. range = 48.49  
mean = 34.738  
median = 33.06  
mode = 21.6

16. D:  $\{x \in \mathfrak{R}\}$   
R:  $\{y \in \mathfrak{R} \mid y \geq -4\}$

18.  $x = 2, 3$

20.  $x = -\frac{3}{4} \pm \sqrt{13}$   
 $\approx -4.356, 2.856$

22.  $\frac{5\sqrt[3]{4}}{2}$

24.  $\frac{3\sqrt[5]{4}}{4}$

26. 12

28.  $\frac{2am + ms + 3a^2}{a(2a + s)}$

30.  $\frac{x^{-3}y^{-7}}{48}$