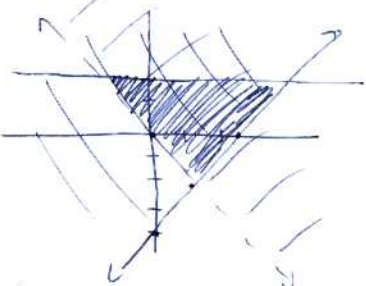


Answers:

1. e
2. b
3. a
4. b
5. a
6. c
7. b
8.  $\frac{1}{2}, \frac{9}{4}$
9.  $[-\frac{2}{5}, \frac{6}{5}]$
10.  $(-\infty, -5) \cup (5, \infty)$
- 11a. no solution    11b. no solution    11c.  $(-\infty, \infty)$     11d.  $(-\infty, \frac{5}{4}) \cup (\frac{5}{4}, \infty)$
- 12a. -2    12b.  $-2xh - h^2 + 2h$
- 13a.  $[-6, 9]$     13b.  $[-5, 1]$     13c. -2, 3, 9
- 14a. -1    14b. 0    14c. 3
- 15a. no solution    15b. all reals
16. (2, -1, 0)
17. (1, -4, 3)
18. Row = 5.25 mph, Current = 2.75 mph
19. Adults = 332, Children = 55
20. 
21. Reflection over x-axis, Right 5, Up 1
22.  $\frac{8}{5x+1}$
23.  $\frac{5x-8}{x^2-9}$
24.  $-2x^5$
25. 6 minutes
- 26a. Lose 1000 in sales for every \$1 price increase
- 26b.  $y = -1000x + 13000$
- 27c. 13000 sold if price is \$0
- 27d. None sold if the price is \$13
- 27e. 9500 sold

