

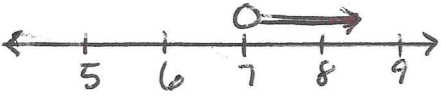
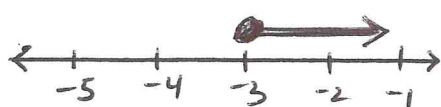
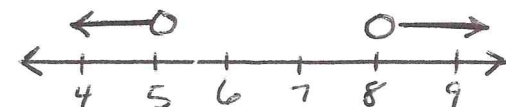
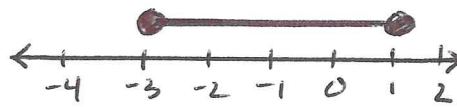
## Chapter 1

1.  $A + 12$     2.  $2Q$     3.  $\frac{36}{M}$     4.  $9B - 4$     5.  $8 - P$   
 6. 11    7. 20    8. 16    9. 22  
 10. -26    11. 4    12. 6    13. 53    14. 1    15. -1  
 16.  $12m + 8$     17.  $-6A + 24$     18.  $-4k + 3$     19.  $6c + 21$   
 20.  $21M + 3N - 11$     21.  $-7x^3 - 3x^2 - 5x$     22.  $9m^2n - 13mn$     23.  $-Q + 44$   
 23.  $E = 12D$      $E = \# \text{ of eggs}$      $D = \# \text{ of dozens}$   
 24.  $B = \frac{P}{20}$      $B = \# \text{ of boxes}$      $P = \# \text{ of pieces}$

## Chapter 2

1.  $M = -24$     2.  $T = -56$     3.  $N = -10.4$     4.  $W = 160$   
 5.  $Y = 21$     6.  $P = \frac{50}{3}$     7.  $A = 33$     8.  $E = 243$     9.  $L = -183$     10.  $G = 42$   
 11.  $M = 15$     12.  $W = -6$     13.  $Q = 3.75$     14.  $T = 13$     15.  $K = 61$     16.  $R = 23$   
 17.  $V = -55$     18.  $M = -11$     19.  $x = -\frac{7}{20}$     20.  $w = \frac{20}{3}$   
 21. No solution    22. All Real Numbers    23.  $K = RT$     24.  $M = Y + P$   
 25.  $V = \frac{Q}{EJ}$     26.  $S = \frac{U+M}{R}$     27.  $C = (A+R)W - H$   
 28.  $R = \frac{G-B}{M} + K$     or     $\frac{G-B+KM}{M}$

## Chapter 3

1.  $M > 7$      2.  $Q \leq -2$    
 3.  $-3 \leq K$      4.  $R < 5$  or  $R > 8$    
 5.  $x \geq -3$  and  $x \leq 1$    
 6.  $A < -2$     7.  $-5 \leq x \leq 0$  which is the same as:  $x \geq -5$  and  $x \leq 0$     8.  $y < 1$  or  $y > 5$   
 9.  $w \leq 8$     10.  $v \geq 50$     11.  $w \leq 3$     12.  $c \leq 5000$     13.  $s \geq 82$   
 14.  $K > -6$     15.  $R > -14$     16.  $M \leq -11$     17.  $-12 < x < 5$

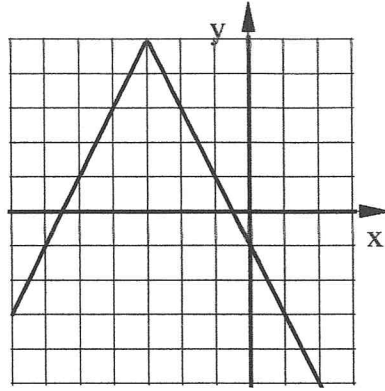
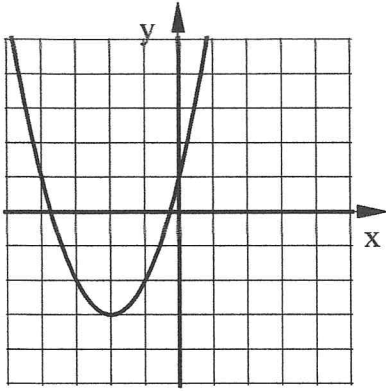
## Chapter 5

1. a) No    b) Yes.  $k = 0.25$     EQ:  $y = 0.25x$     or     $\frac{y}{x} = 0.25$   
 2. a) Yes    b) No    c) No    d) Yes  
 3. Domain:  $\{-3, 1, 4, 5\}$     Range:  $\{3, 6, 8\}$   
 4. a) 4    b)  $c = 11.5$     c) Range:  $\{-4, 4\}$

5. a)  $k = 0.125$  bulbs/Lumen      b) 960 Lumens

6. a)  $y = (x + 2)^2 - 3$

b)  $y = -2|x + 3| + 5$



## Chapter 6

1. Point-Slope:  $y + 18 = -5(x - 4)$  or  $y - 37 = -5(x + 7)$       Slope-int:  $y = -5x + 2$

2. a)  $x = -3$       b)  $y = 5$       c)  $y = 8$       d)  $x = 9$

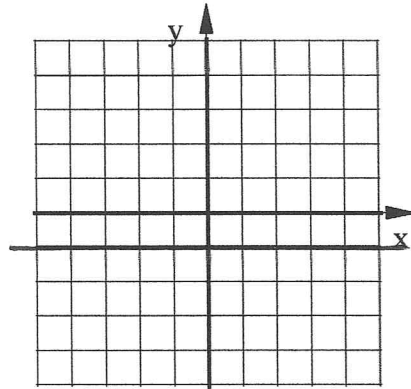
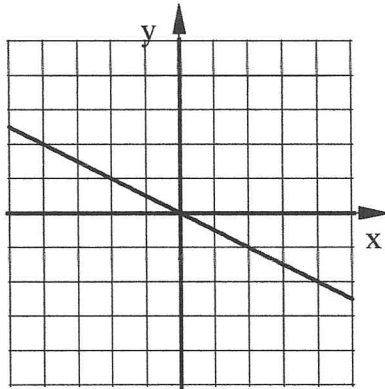
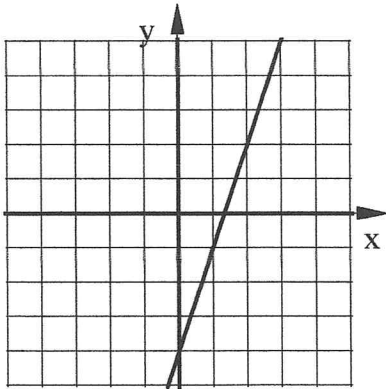
3. a)  $y - 3x + 1$       b)  $y = -3$       c)  $x = 2$

4.  $x - \text{int} = 10$        $y - \text{int} = -6$

5. a)

b)

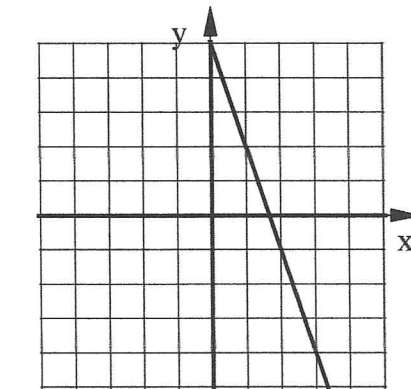
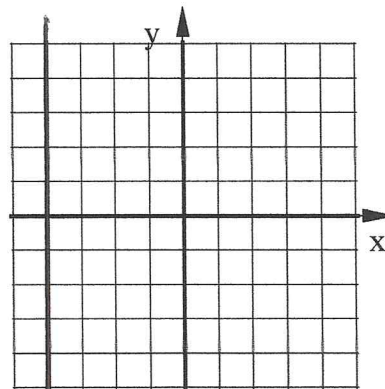
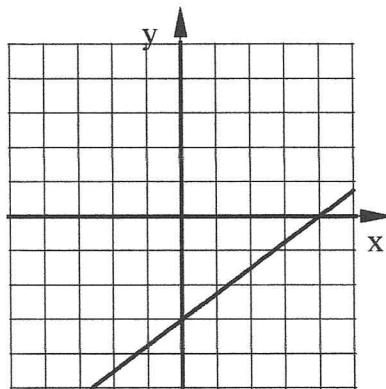
c)



d)

e)

f)



## Chapter 6 answers continued

6. a)  $y - 1 = 6(x - 5)$  or  $y = 6x - 29$     b)  $y - 10 = -\frac{1}{6}(x - 12)$  or  $y = -\frac{1}{6}x + 12$   
7. a) Parallel    b) Neither    c) Perpendicular    d) Parallel    e) Perpendicular    f) Neither  
8. a) 12.25 dollars/box    b) 3.75 ounces/can  
9. a)  $y = -\frac{1}{2}|x - 1| + 4$     b)  $y = 2|x + 3| - 5$

## Chapter 7

1. (6,1)    2. a) One    b) None    c) Many  
3. a) (12,39)    b) (1,-1)  
4. a) (-3,2)    b) (-5,-7)    c) (0,8)    d) (9,-1)  
5. Equations:  $4A + 2B = 7.74$      $3A + B = 5.56$   
A = # lbs of apples    B = # lbs of bananas    Answer: Apples cost \$1.69 per pound  
Bananas cost \$0.49 per pound  
6. This will not be on the final exam.

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