WORKSHEET 2.3

Name_____ Worksheet 2.3

Find the slope and y-intercept of the line.

(2) m = 2, b = 1 — 1. $y = 2x + 1$

(2) m = 3, b = -4 — 2. $y = 3x - 4$

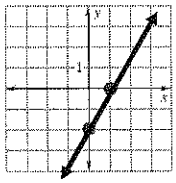
(2) m = -2, b = 2 — 3. $y = -2x + 2$

(2) m = $\frac{-7}{8}$, b = -5 — 4. $y = -\frac{7}{8}x - 5$

Graph the line with the given slope and y-intercept.

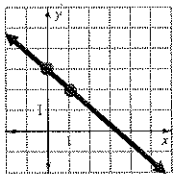
5. $m = 2, b = -2$

(1)



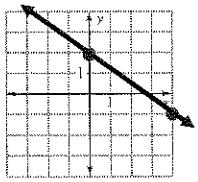
6. $m = -1, b = 3$

(1)



7. $m = -\frac{3}{4}$ $b = 2$

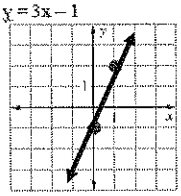
(1)



Graph the line using the slope and y-intercept.

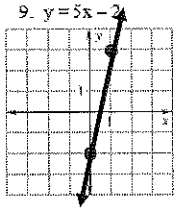
8. $y = 3x - 1$

(1)



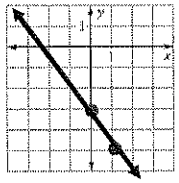
9. $y = 5x - 2$

(1)



10. $y = -2x - 3$

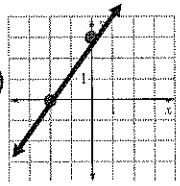
(1)



Identify the intercepts, then graph the line. (Write in standard form first if necessary.)

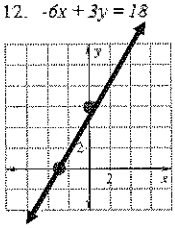
11. $12x - 8y = -24$

(1)



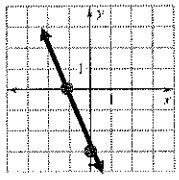
12. $-6x + 3y = 18$

(1)



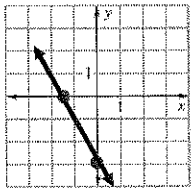
13. $5x + 2y = -6$

(1)



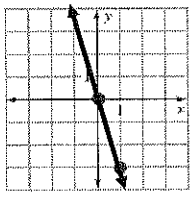
14. $2x + y = -3$

(1)



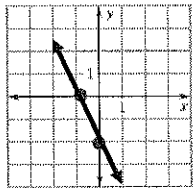
15. $3x + y = 0$

(1)



16. $2y = -5x - 4$

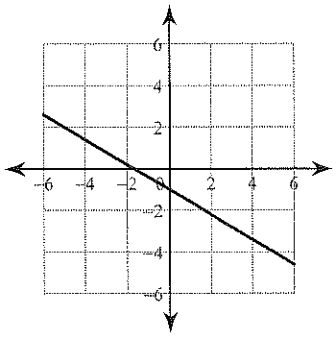
(1)



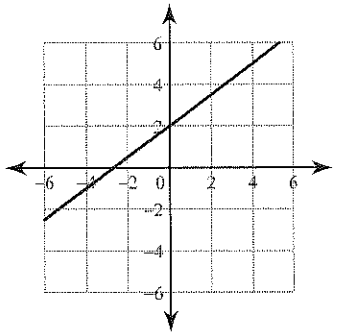
40 points total

Answers to WORKSHEET 2.3 (BACK)

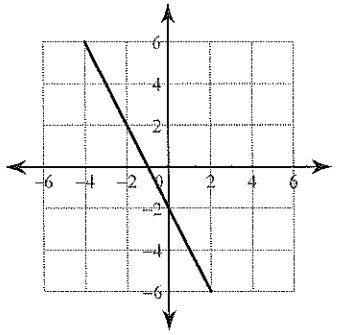
1)



2)



3)



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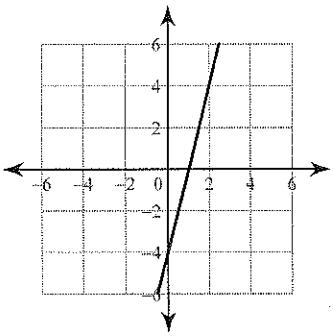

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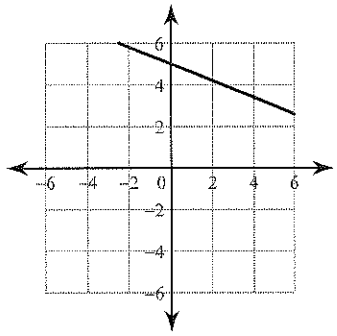
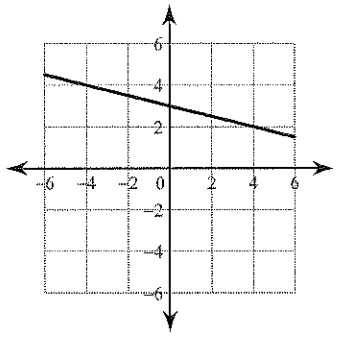


6)



26 points total

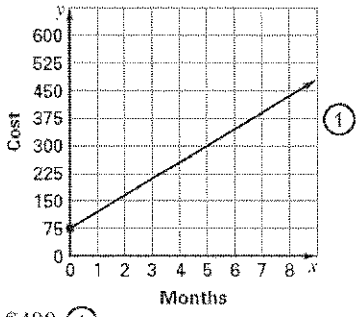
P.94 ANSWERS

2.3

Ch. 2 - Linear Equations & Functions

p.94/ # 59 - 63 all, 67, 71 - 81 (odd)

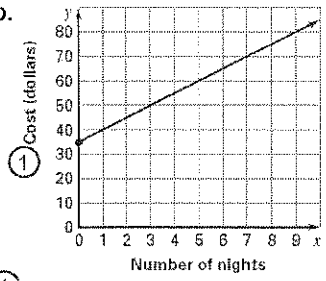
59.



(1)

$480 (1)

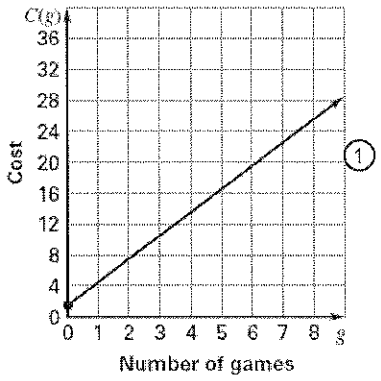
60.



(1)

(1) slope: cost per night of camping,
(1) y-intercept: initial membership fee

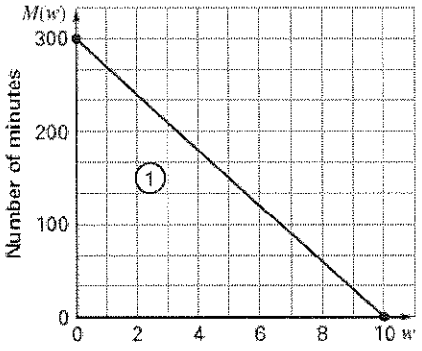
61.



(1)

$1.50; 3 (2)

62. (1) A reasonable domain would be greater than or equal to 0 because you cannot have a negative number of weeks. To find the greatest value in the domain, set the function equal to 0 and solve, which gives $0 \le w \le 10$. A (1) reasonable range occurs between the minimum value of the domain and the maximum value of the domain, which gives $0 \le M(w) \le 300$.



(1)

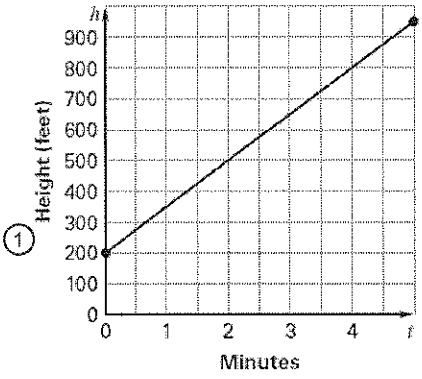
63. 30; fall; the value of the card (1) will decrease after you buy each smoothie, so the line will fall from left to right.

67. a.

t (min)	h (ft)
0	200
1	350
2	500
3	650
4	800
5	950

(1)

67. b.



(1)

c. $h(t) = 150t + 200$ (1)

(1) **71.** 24 **73.** -2 (1) **75.** 43 (1)

(1) **77.** Yes; each input has exactly one output.

79. -1 (1) **81.** $-\frac{3}{7}$ (1)

23 points