

1) up

2) slope

$$3) m = \frac{2}{-5} = -\frac{2}{5}; b = 2$$

$$4) Y = -\frac{2}{5}X + 2$$

$$5) m = \frac{2}{-8} = -\frac{1}{4}; b = 3$$

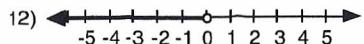
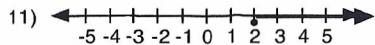
$$6) Y = -\frac{1}{4}X + 3$$

$$7) m = \frac{3}{3} = 1; b = -1$$

$$8) Y = X - 1$$

$$9) m = \frac{3}{-1} = -3; b = -2$$

$$10) Y = -3X - 2$$



$$13) 11 \cdot 3^2 - 14 \times 2 = \\ (11 \cdot 9) - (14 \cdot 2) = \\ (99) - (28) = 71$$

$$14) 2 \cdot 7 + 4^2 - 15 = \\ (2 \cdot 7) + 16 - 15 = \\ 14 + 16 - 15 = 15$$

$$15) (-6)^2 + (8 - 3^2) = \\ 36 + (8 - 9) = \\ 36 + (-1) = 35$$

$$16) 16 \div 8 \cdot 5 - 14 = \\ 2 \cdot 5 - 14 = \\ 10 - 14 = -4$$

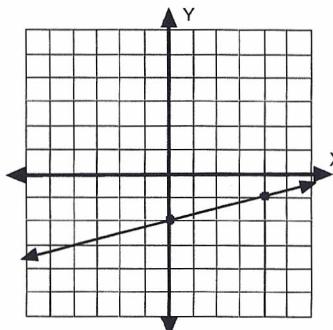
$$17) -2B + 5 - 3 + B = B - 4B + 1 - 10 \\ -2B + B + 5 - 3 = B - 4B + 1 - 10 \\ -B + 2 = -3B - 9 \\ -B + 3B = -9 - 2 \\ -2B = -11 \quad B = 11/2 \text{ or } 5 \frac{1}{2}$$

$$18) 5K + 6 - K - 9 = -2K + 6 + 3K - 3 \\ 5K - K + 6 - 9 = -2K + 3K + 6 - 3 \\ 4K - 3 = K + 3 \\ 4K - K = 3 + 3 \\ 3K = 6 \quad K = 2$$

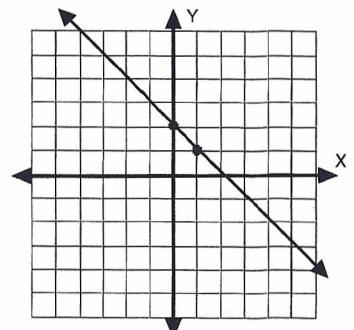
$$19) 43/10 = -2/3 + 8/9G \\ 90(43/10) = 90(-2/3 + 8/9G) \\ 387 = -60 + 80G \\ 387 + 60 = 80G \quad 447/80 = G \\ G = 447/80 = 5 \frac{47}{80}$$

$$20) -5 - .6R = -9.8 \\ 10(-5 - .6R) = 10(-9.8) \\ -50 - 6R = -98 \\ -6R = -98 + 50 \\ -6R = -48 \quad R = 8$$

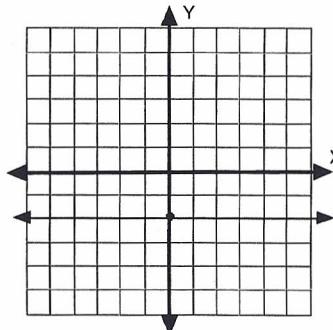
$$1) Y = 1/4X - 2, \quad m = 1/4, \quad b = -2$$



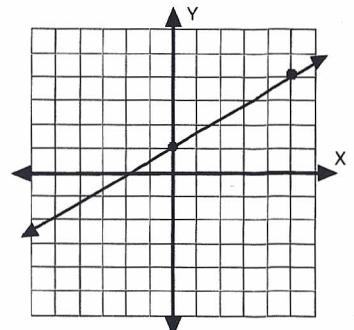
$$2) Y = -X + 2, \quad m = -1, \quad b = 2$$



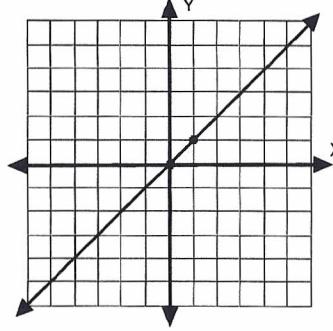
$$3) Y = -2; Y = 0X - 2, \quad m = 0, \quad b = -2$$



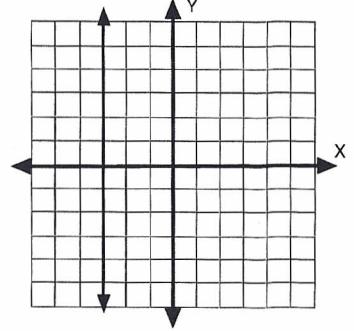
$$4) Y = 3/5X + 1, \quad m = 3/5, \quad b = 1$$



$$5) Y = X; Y = X + 0, \quad m = 1, \quad b = 0$$

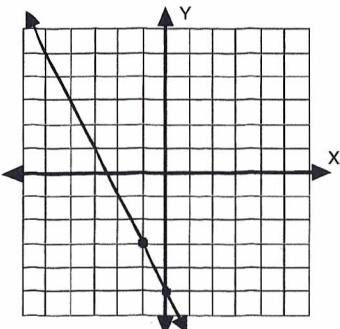


$$6) X = -3, \quad m = \text{undefined}, \quad b = \text{none or undefined}$$

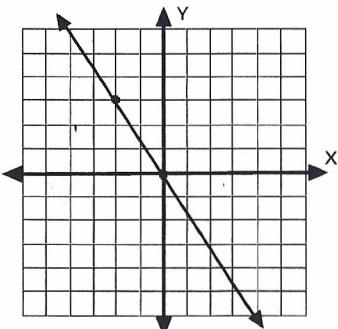


8B

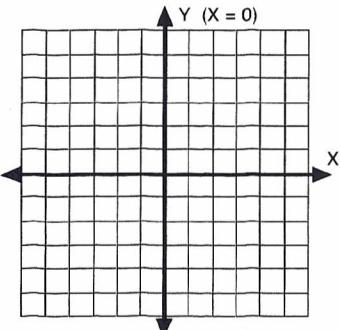
1) $Y = -2X - 5$, $m = -2$, $b = -5$



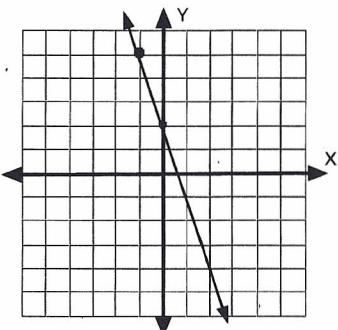
2) $Y = -\frac{3}{2}X$; $Y = -\frac{3}{2}X + 0$, $m = -\frac{3}{2}$, $b = 0$



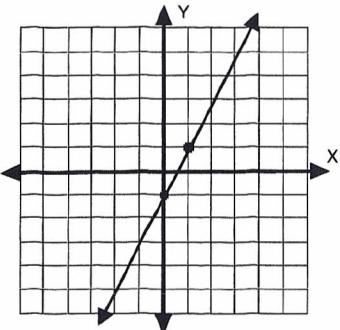
3) $X = 0$, $m = \text{undefined}$, $b = \text{none or undefined}$; graph is Y-axis



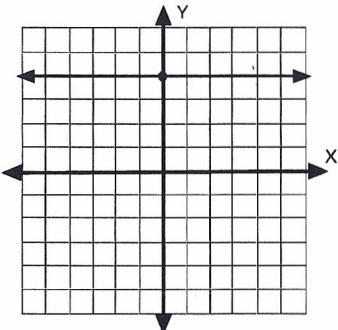
4) $Y = -3X + 2$, $m = -3$, $b = 2$



5) $Y = 2X - 1$, $m = 2$, $b = -1$



6) $Y = 4$; $Y = 0X + 4$, $m = 0$, $b = 4$



8C

	days	dollars
0		-4
1		-5
2		-6
3		-7

11) $6R - 90R = 70$
 $-30R = 70$, $R = -2 \frac{1}{3}$

12) $-18 + 54X = 27$
 $9(-2 + 6X) = 9(3)$
 $-2 + 6X = 3$, $6X = 5$, $X = \frac{5}{6}$

13) $[(6 + 5)^2 - 1] \div 12 = 3X + |-2X|$
 $(11^2 - 1) \div 12 = 3X + 2X$
 $120 \div 12 = 5X$, $10 = 5X$, $2 = X$

14) $4B - 32B = 36B - 8BY$
 $4B(1 - 8) = 4B(9 - 2Y)$
 $-7 = 9 - 2Y$, $-16 = -2Y$, $8 = Y$

15) $100(1.03) - 100(.8Y) = 100(5)$
 $103 - 80Y = 500$
 $-80Y = 397$, $Y = -4 \frac{77}{80}$ or 4.9625

	days	money
0		0
1		-2
2		-4
3		-6

2) on the graph

3) $-1, 4$
 $\$ = -D - 4$

4) $0, 2$

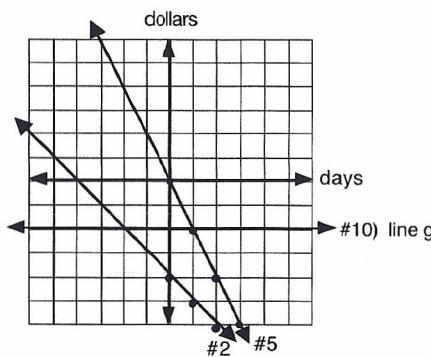
6) $-2, 0$

7) slope = 4, intercept = 2

8) $Y = 4X + 2$

9) quadrants 1, 2, 3

10) on the graph



17) $5X - 20 = 50X + 35$
 $-55 = 45X$, $X = -1 \frac{2}{9}$

18) $\frac{6}{(60)} \frac{3}{10} X - \frac{10}{(60)} \frac{19}{6} X = \frac{15}{(60)} \frac{17}{4}$
 $18X - 190X = 255$, $X = -1 \frac{83}{172}$

19) $WF \times 7 = 5$
 $\frac{WF}{Z} \times Z = \frac{5}{7}$
 $WF = \frac{5}{7}$

20) $WF \times 5 = 2$
 $\frac{WF}{S} \times S = \frac{2}{5}$
 $WF = \frac{2}{5}$

8D

	days	dollars
0		-3
1		-5
2		-7
3		-9

11) $12Y = 6 - 24$
 $12Y = -18, Y = -1 \frac{1}{2}$

12) $-72 + 60F = 48$
 $60F = 120, F = 2$

2) on the graph

3) $-2, 3$
 $\$ = -2D - 3$

4) $2, 3$

	days	dollars
0		2
1		5
2		8
3		11

14) $-50BY + 30B = 80BY - 40B$
 $10B(-5Y + 3) = 10B(8Y - 4)$
 $-5Y + 3 = 8Y - 4, 7 = 13Y, 7/13 = Y$

15) $1000(.018) = 1000(.25Q) + 1000(2.04)$
 $18 = 250Q + 2040$
 $-2022 = 250Q, -8 \frac{11}{125} = Q$

5) on the graph

6) $3, 2$

16) $\frac{3}{(24)} \frac{-13}{8}, M + \frac{8}{(24)} \frac{13}{8} = \frac{4}{(24)} \frac{7}{8}$

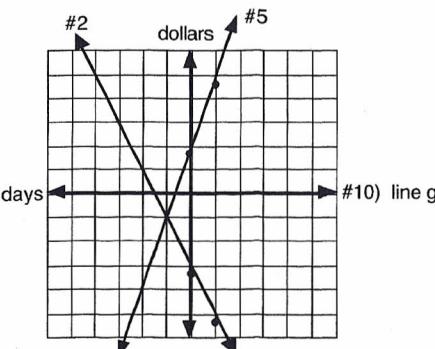
7) slope = -1, intercept = 0

$-39M + 104 = 28,$
 $76 = 39M, M = \frac{1}{3} \frac{13}{39} = M$

8) $Y = -X$

9) quadrants 2, 4

10) on the graph



17) $10(-1.3) + 10(2.6) = 10(5.2X)$
 $-13 + 26 = 52X$
 $13 = 52X, X = \frac{1}{4}$

18) $\frac{6}{(30)} \frac{7}{5}, Y = \frac{5}{(30)} \frac{25}{8} - \frac{10}{(30)} \frac{7}{8}$
 $42Y = 125 - 70, Y = \frac{1}{13} \frac{55}{42}$

19) $3N - N + 2N + 7$

20) $WF \times 4 = 3$
 $\frac{WF}{4} \times 4 = \frac{3}{4}$
 $WF = \frac{3}{4}$

8E

	days	dollars
0		-4
1		-1
2		2
3		5

11) $-9Q - 24Q + 15 = 0$
 $3(-3Q - 8Q + 5) = 3(0)$
 $-3Q - 8Q + 5 = 0$
 $-11Q = -5, Q = \frac{5}{11}$

12) $66 + 99A - 77 = 0$
 $11(6 + 9A - 7) = 11(0)$
 $6 + 9A - 7 = 0$
 $9A - 1 = 0, A = 1, A = \frac{1}{9}$

2) on the graph

3) $3, 4$
 $\$ = 3D - 4$ or $M = 3D - 4$

4) $-3, 1$

	days	dollars
0		-3
1		-2
2		-1
3		0

13) $2X(3 - 7 + 4 - 8 - 1) - 4^2 = (-4)$
 $2X(-9) - 16 = -4$
 $-18X = 12, X = -\frac{2}{3}$

14) $12 + 28 = -20B$
 $40 = -20B$
 $B = -2$

15) $10(4D) - 10(.3D) = 10(18.5)$
 $40D - 3D = 185$
 $37D = 185, D = 5$

5) on the graph

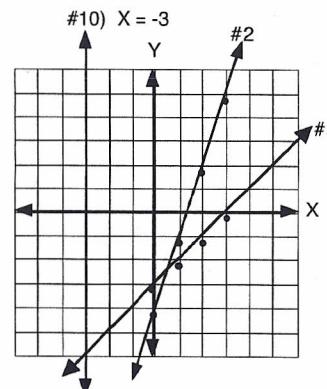
6) $1, -3$

7) slope = -3, y-intercept = 2

8) $Y = -3X + 2$

9) quadrants 1, 2, 4

10) on the graph



16) $\frac{35}{(70)} \frac{13}{2} = \frac{10}{(70)} \frac{5}{2} N - \frac{14}{(70)} \frac{-13}{5} N$
 $455 = 50N - 182N,$
 $455 = -132N, N = -\frac{1}{132} \frac{455}{N}$

17) $-12 = -2A - 6$
 $-6 = -2A, A = 3$

18) $\frac{20}{(40)} \frac{-11}{2} X + \frac{5}{(40)} \frac{19}{8} = \frac{4}{(40)} \frac{9}{10} N$
 $-220X + 95 = 36$
 $-220X = -59, X = \frac{59}{220}$

19) $(N + 1)(N - 4)$

20) $WF \times 9 = 7$

$$\frac{WF}{9} \times 9 = \frac{7}{9}$$

$$WF = \frac{7}{9}$$