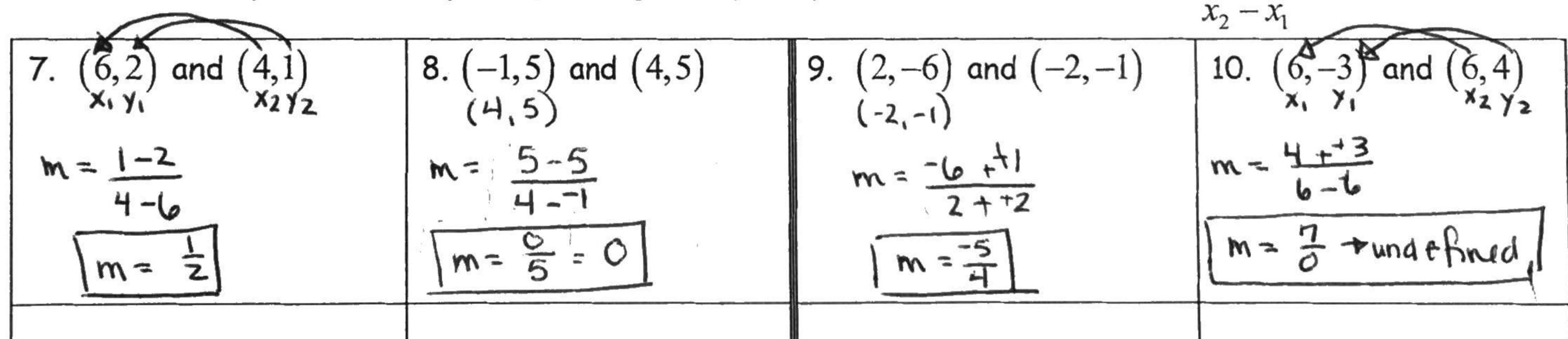
I Use the order of operations to simplify the following problems. Show your work

1. Use the order of operan	ons to simplify the following	g problems. Snow your work	<b>\.</b>
1. $15 \div 3 \cdot 5 + 12 \div 6$		2. $25-10^2+150\div 3$	
5.5+12-6		25 - 100 + 150 -3	
25 + 12 - 6		25-100 + 50	
25 + 2		-75 +50	
127		[-25]	
3. $3+2[40-(1+5)^2]$	3+2[40-(1+5)2]	4. $12+\left[\left(-6\right)^{2}-4^{2}\right]^{2}-7$	
	3+2[40-16)2]	L` '	
	3+2[40-36]	12+[36-14]2-7	
	3+2[4]	12+[20]-7	
	3+8	12+400-7	
		405	
$3+[8-(2+3)^2]$	3+[8-52]	$4+[8-(5+3)^2]$	4+[8-(8)2]
5	2:50.257	6. — 12.2	4 1 50
10÷2	2 + LB -912]	12÷3	1 - LO - 64]
	10 - 2		12:3
	3+17		4+-54 -52 1-12
	10-2 [-14]		12-3 4
	5		

II. Find the slope of the line passing through the given points or equation.



III Simplify each expression.

11. 
$$3(x-5y)-2(5x-4y)$$
  
 $3x + 15y - 10x + 8y$   
12.  $x(3-y)-5x(y+6)$   
 $3x - xy - 5xy - 30x$   
 $-27x - 6xy$ 

Simplify each express. Then evaluate the expression for the given values of the variables.

13. 
$$-x(2x^2 + 5x - 1)$$
 for  $x = -3$   
 $-2x^3 - 5x^2 + x$   
 $-2(-3)^3 - 5(-3)^2 + (-3)$ 
14.  $(2x-1)^2 - 5x + x^2$  for  $x = -3$   
 $4x^2 - 4x + 1 - 5x + x^2$   
 $5x^2 - 9x + 1$   
 $5(-3)^2 - 9(-3) + 1$ 

IV Algebraic Translations

15.	Γh	irty-two	is	7	less
than	3	times a	nur	nt	ber.

$$32 = 3x - 7$$

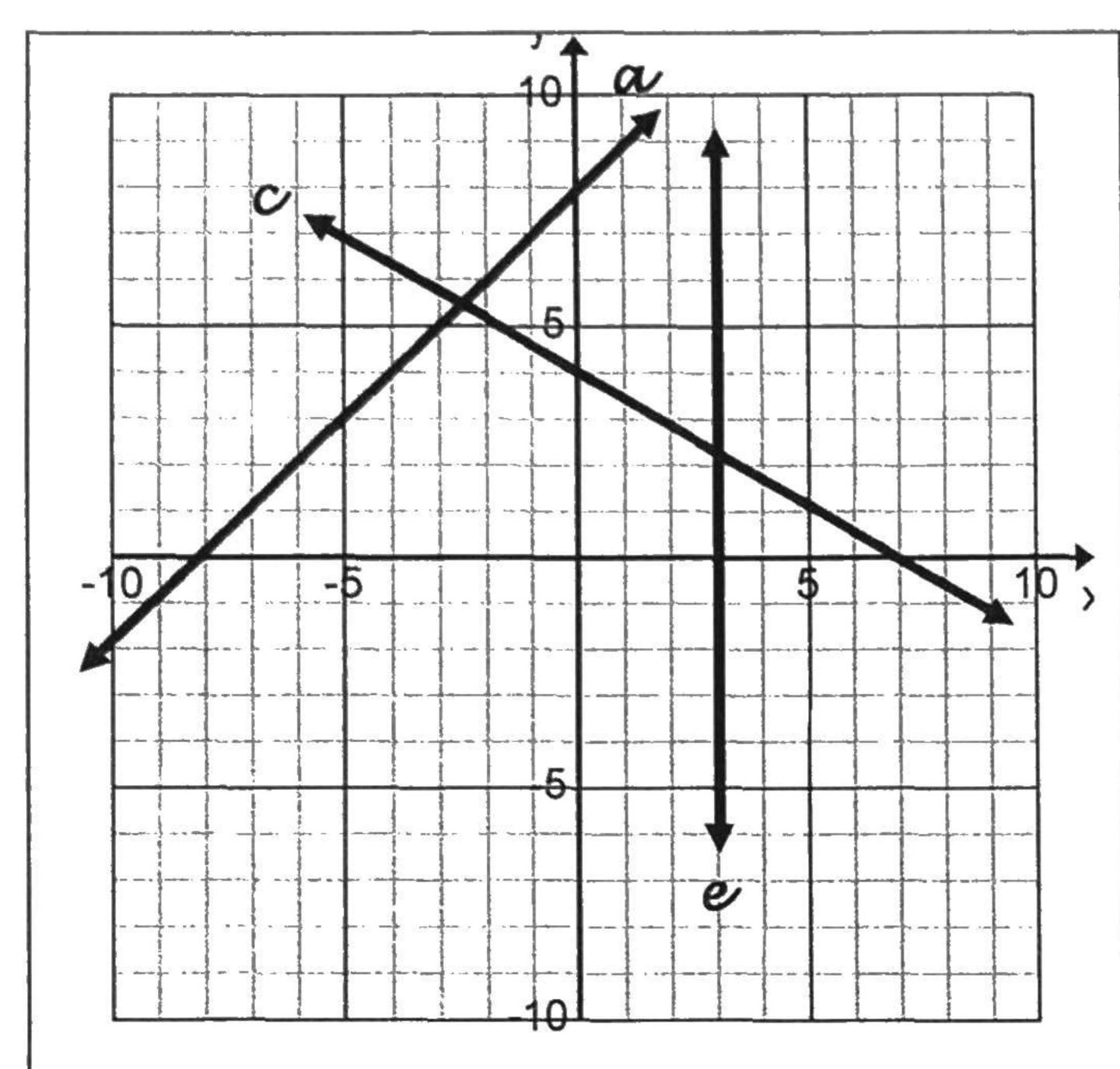
16. Twice Beth's daily pay is the same as her daily pay increased by \$45.

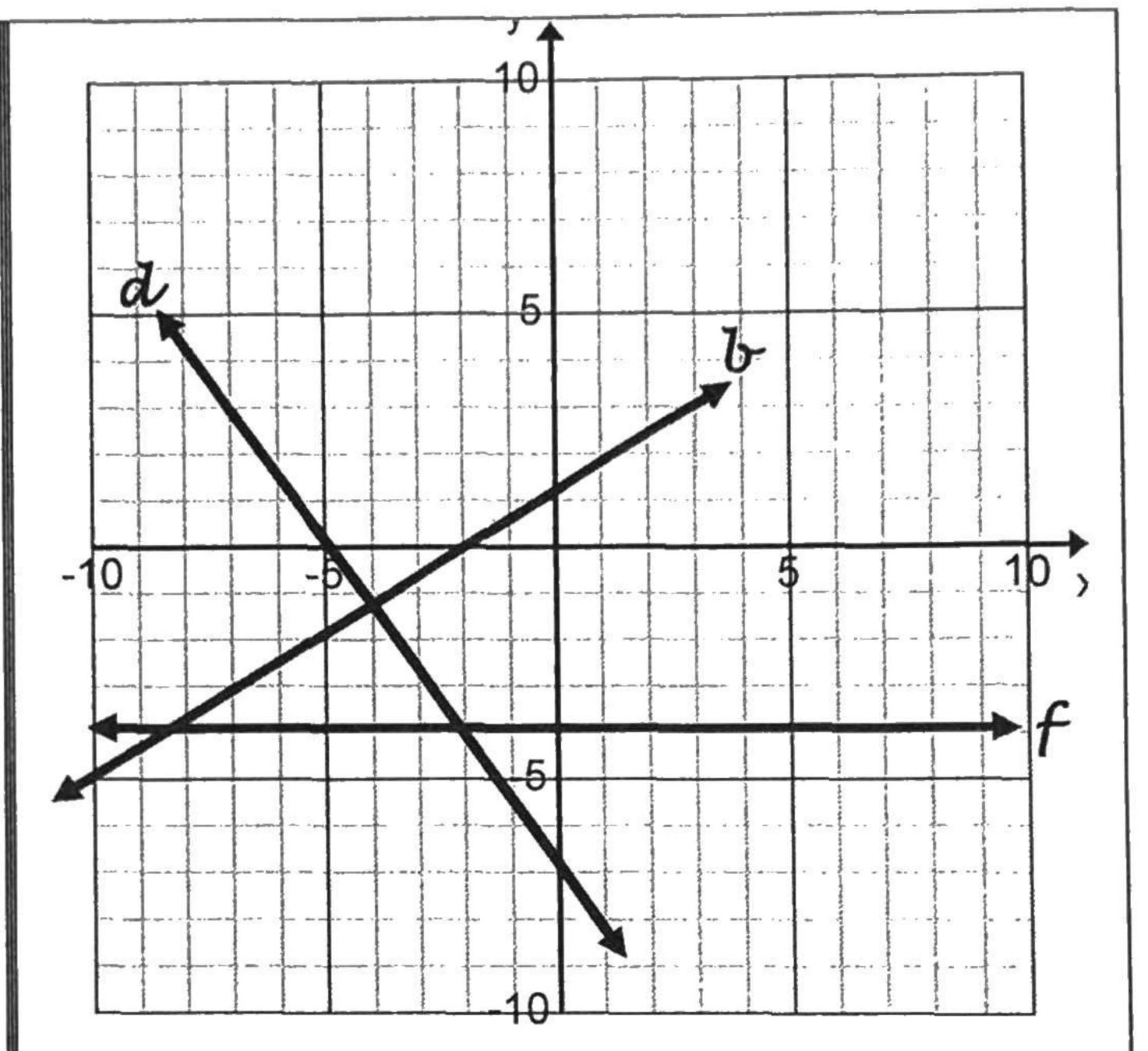
$$2B = B + 45$$

17. Thrity-two pounds less than twice Jane's weight is 270 pounds.

18. A number decreased by 45 is the same as 3 times the number.

## V. Name the x- and y- intercepts AND the slope for each of the lines.





Find the x- & y- intercept and slope for each line.

19. line a

x-intercept	y-intercept	slope
(-8,0)	(0,8)	+8 = []

21. line c

x-intercept	y-intercept	slope
(7,0)	(0,4)	-4 = -4

23. line e

x-intercept	y-intercept	slope
(3,0)	none	5 Jundefined

Find the x- & y- intercept and slope for each line.

20. line b

x-intercept	y-intercept	slope		
(-2,0)	(0,1)	+1/2 = -		

22. line d

x-intercept	y-intercept	slope
(-5,0)	(0,-7)	7 = 1 - 3

24. line f

x-intercept	y-intercept	slope
none	(0,-4)	-4 = 0

## Answer Bank

I	-13	11	27	-2.8	405	-25			
II	-4	-5/4	0	0	Undefined	Undefined	1/2 2		2/3
III	-7x	-7y	-27x	-6xy	73	6			
IV	2x - 32	2 = 270	2x = x + 45		32 = 3	3x - 7	X	-45 = 3	x
V	x:none	x:7	x:-8	x:-2	x:-5	x:3	-1/2	1/2	0
	Y:-4	Y:4	Y:8	Y:1	Y:-7	Y:none	1	-7/5	Undef.