For full credit, show all work.

	For the situation described, first write an equation in the form $y = mx + b$. Then solve the problem.								y = 250x + 500		
1.	A sales ass average co for 12 wee	sociate is given a mmission of \$2: ks?	1 \$500 h 50 per v	niring bo veek. H	onus v low n	with nuch	a ne doe	w jol s she	b. She earn if	earns an she works	\$3500
	Mr. Mangham is at Home Depot looking at two new rugs for his classroom. The cost of all the rugs in the store is a linear relationship.										
2.	200 square feet - \$56				300 square feet - \$90						y = 0.34x - 12
	Write an e	quation in slope-	interce	pt form	for th	ne co	st of	frugs	s at Ho	ne Depot.	
	Write an equation in the form $y = mx + b$ for the table below.										
3.		Mont		2 6		Ĵ	12		y = 75x + 150		
		Account B	alance	(y) \$3	300	\$6	00	\$1,	050		
4.	Complete the table to model the linear relationship. Then write an equation in slope-intercept form for the relationship. A bowling alley charges \$3.00 to rent shoes and \$1.50 per each game bowled.								y = 1.5x + 3		
		Games Bow	Games Bowled		2	2		3	4		
		Total Cos	t	\$4.50	\$6.	.00	\$7	.50	\$9.00		
	The table shows the linear relationship of how the number of months of membership at two gyms relates to the total cost of the membership, including the membership fee.										
5.	Ν	Months		Cost at Gym A				C	Cost at	y = 20x + 50	
		$\frac{1}{2}$		<u>\$70</u> \$90)				<u>\$5</u> \$8	5	
		3		\$110	0				\$10)5	
	Write an equation in slope-intercept form for the cost at gym A.										
6.	Use the table in the previous question to write an equation in slope-intercept form for the total cost at gym B.						y = 25x + 30				

7.	In the previous que be a member for 10 cost at each gym ar overall cost?	the previous questions, suppose you plan to a member for 10 months. What is the total st at each gym and which is the better erall cost? A: \$250 B: \$280				Gym A
8.	A ticket agency cha were made for tick • William spend • Theo buys 2 tic • The ticket agen	et purchases				
	Thate the information					
		Total Cost	2 \$72	2 \$132	\$252	
						1
9.	In the question abo purchased and total y = mx + b.	Yes, linear. y = 30x + 12				
10.	In the questions ab	\$222				
11.	 Why is this not a formal f	В				
12.	Norma made the gr value of 12 cars. W the relationship bei A (3.5, 4)	raph below to show the hich value, when rem ng a function?	ne relation noved fr	conship between the graph, we form the graph, we found the graph of t	he age and buld result in D (7, 5)	D



17.	What is the equation for line D?	С
	A $y = 10x + 60$ B $y = 60x - 10$ C $y = -1x + 60$ D $y = -10x + 60$	
18.	B $y = 00x + 00$ Which graph above could not be written as an equation in the form $y = mx + b$?Aline ABline BDline D	А
19.	Which graph above shows a linear non-proportional relationship?Aline ACline CBline BDline D	D
20.	Which graphs above shows a proportional relationship?Alines A & BBlines B & CDall lines	В
21.	Which statement compares the data on these graphs? $ \begin{array}{c} $	A



28.	A line has a slope of $m = -\frac{3}{2}$, and the point (-6,2) lies on the line. What is the y-intercept of the line?								b = -7
20	Kim starts	y = -15x + 500							
29.	\$800 and spends \$35 per week. Write a system of equations that represents this situation.								y = -35x + 800
30.	Graph the p	oroblem abov	e on a sł	neet of g	raph pap	oer.			
31.	In the probl	x < 15 weeks							
32.	In the probl	ney both have the mount of money.							
	Which equation below represents the relationship shown in the table?								
		_	x	0	1	3			
33.			у	5	7	11			С
	А	y = x + 5		С	y = 2x	+5			
	B	y = x + 6	1	D	y = 3x	+2	1 .		
	A sailboat r sailboats. T	The costs are s	ny charg shown in	es an 111 the tabl	tial fee p e below.	lus an ho	ourly rate	e to rent	
34.		Number of	Hours	1	2	3	4		y = 6.75x + 15.75
		Price ((\$)	22.50	29.25	36.00	42.75		
	Write a linear equation that shows the relationship between the cost and the number of hours of the sailboat rental.								
35.	What is the initial fee to rent a sailboat?								\$15.75
36.	What is the hourly rate to rent a sailboat?								\$6.75
37.	A furnace operates at $2300^{\circ}F$. Before it can be used to extract metal from an ore, the temperature must be raised to $3600^{\circ}F$. This takes place at a rate of $250^{\circ}F$ per quarter hour. Which equation gives the furnace temperature <i>T</i> after <i>q</i> quarter hours?							А	
	A $T = 250q + 2300$ C $T = 2300q + 250$ B $T = 250q + 3600$ D $T = 3600q + 250$								
38.	B $T = 250q + 5000$ D $T = 5000q + 250$ Jose deposited \$250 into his savings account. He then saved \$40 per month. Write an equation to show <i>a</i> , the amount in Jose's savings account after <i>t</i> months.								А