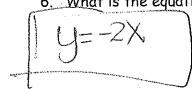
## Writing Point-Slope Equations

	Homework	Date	Period
			·
	I. Complete the following:	V	
	1	in successful 10 wouther and According	to atotistica it loans
	• • •	is presently 40 months old. According	· · · · · · · · · · · · · · · · · · ·
	\$240 in value each month.	A dealer's "blue book" shows its current	value is \$0400.
	a Identify the point fr	com this cituation ((()) /-//(())	
	a. Identity the point it	rom this situation. (40, 6400)	
	b. Identify the slope. \	What does it represent in this situation	?
	m=240 The Ca	rrs Losing 240 each ment	h mound
	c. Write the equation o	f the line in point_slope form. (convert	to slope-intercept
	form) $9-6400$	240(X-48) 7 /y=240X	HIDO (1)
4	3-6400	240x+2605	
10	d. Identify the y-inter	cept. What does it represent in this sit	ruation?
$(\mathcal{O}_{j})$	16,005 b= 16,000 The	ar worth when it was 20 months old?	1000
	e. How much was the co	y = 246(26) + 16008 $y = 611, 20$	50)
	f When will the car he	worth \$50002	11800 = -248X
1246	mns y=-240x+16005	worth \$5000?  SSS = -240× +16008  ent of STAND, he signed up 4 new mem	777
	2. When Larry became preside	ent of STAND, he signed up 4 new mem	HS-83 = X
	M=4 (10,115) 4-	115 members. $9 + 118 = 4x - 40$ 115 = 4(x - 10) $19 = 4x + 73$	
	a. How many members w	vere there after 24 weeks?	
	y= 4x+75 y=1	+(24)+75 1y=17/member	
	b. How long will it take	Larry to build the membership to 235?	HArzek
1	3-13		
		his birthday. He spends \$8 per day. A	After 10 days, he has
	\$120 left y-12 m=8 (10,120) y-13	20=8(X=10) /y=8X+ac	
	a. How much will he have	e left 15 days after his birthday?	100111
	4=8x+200, y	e left 15 days after his birthday?	P80 JOHT
	b. When will he <u>run out</u> y=8x+200	of money? $4=0$	5 days
	$y = \delta x + \mu c$	$8x + 30$ $-30$ $= 8$ $\times$ $\times = 2$	,5 (lest)
	c. What was the amount	· · · > 1->	
	1 A plane locas altitude at the	e rate o <u>f 5 meters per seco</u> nd. It <u>begiñ</u>	s at an altitude of 8500
			P A + OSAN SV
	meters. $b = -5$ b=	8500 y=-5x+8500 0	C 3=800-01
SO OSI	$40 = a$ . What will the altitude $y = 8500 - 5 \times$	e of the plane be in 2 minutes? $y = 8500 - 50200$ $y = 790$	omelers]
The second second	b. When will the plane b	be 2000 meters above ground?	- GV CONTRACTOR
	y=8500-5x	7.40 = \$570 - SX -1500 =	= 6x X = 1360 920
	c When will the plane lo	nd2	
	y= 8505-5x	S. 1828-5X 17W=X	do
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- II. Complete the following.
- 5. Find three more points with integer coordinates that lie on the line through (6, 5) with slope  $\frac{2}{3}$ .  $\frac{1}{3}$   $\frac{1}{$

- 6. What is the equation of the line with a slope of -2 that goes (through the origin?)



- means y-intercept
- III. Write the point-slope form of an equation of the line that passes through the given point and has the given slope. Convert to slope—intercept form and identify the y-intercept.
  - 7. (3, 8); slope = 2 11. (8, 7); slope = undefined
  - means Verteal Under-m

