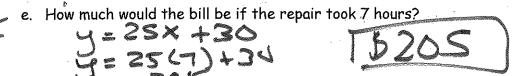
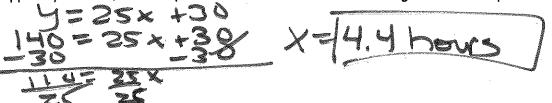
Writing Point-Slope Equations	Name
Class Activity/Notes 6 iven point (X)	DatePeriod
Point–slope form: $y - y_1 = m(x - x_1)$ Write the point–slope form of an equation of the has the given slope. Convert to slope–intercept for	line that passes through the given point and
1. (1, 6); slope = 3	2. (-5,9); slope = -1 4-9= -1(X+5)
3 × 3 (0,3)	
3. $(-6, -2)$; slope = $\frac{-1}{2}$	4. (3,-5); slope = 0 horizontel 4. (3,-5); slope = 0 horizontel 4. (3,-5); slope = 0 horizontel
4+2== = = x - 3 4== = x - 5 (0, -5)	
5. (4, 2); m = 2 y - 2 = 2 (x - 4)	6. $(4, -2)$; $m = \frac{1}{4}$
STATE TO LOSS	447 = 4× -3 (0, -3
7. A repairman charges \$25 per hour plus an inition.	al service charge. The bill for 3 hours is \$105.
b. Identify the slope. What does it represen	t in this situation?

d. Identify the y-intercept. What does it represent in this situation?

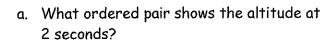
(0,30) Service charge 330



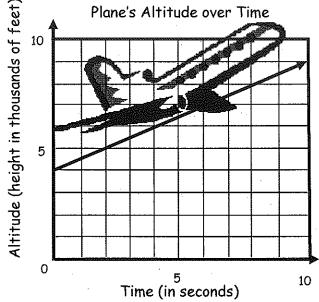
f. Suppose you had \$140 to spend on the service call. How long could the repairman stay?



8. After flying at a constant altitude, a pilot decides to zoom upward. The graph shows the change in altitude each second.



- b. Identify the slope. What does it represent in this situation?
- c. Write the equation in point-slope form and convert to slope-intercept form.



- d. Identify the y-intercept. What does it represent in this situation?
- e. After how many seconds will the altitude be 13,000 feet?