Chapter 6B Practice Test (Sections 6.3, 6.4, 6.6)

Short Answer

1. The grocery store sells kumquats for \$4.25 a pound and Asian pears for \$2.25 a pound. Write an equation in standard form for the weights of kumquats k and Asian pears p that a customer could buy with \$18.

4.25K+2.25p=18

2. The grocery store sells apples for \$5.00 a pound and bananas for \$3.50 a pound. Write an equation in standard form for the weights of apples a and bananas b that a customer could buy with \$20.

5.00a+ 3.50b=20

3. At the beginning of the year, you have a balance of \$200 in your bank account. Each month you deposit \$50.

(a) Write an equation for this situation.

y=50x+200

(b) Use the equation to find the balance in September. Hint: September is the 9th month.

4. In February, you have a balance of \$270 in your-bank account. Each month you take out \$45.

(a) Write an equation for this situation.

4= -45x+270

(b) Use the equation to find the balance in June. Hint: June is the 6th month. (+)

y=-45(6)+270 =-270+270 (4=1

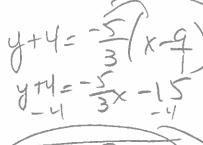
Are the graphs of the lines in the pair parallel? Show work to back up your answer

Circle your answer/ YES

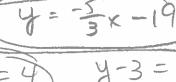
Circle your answer: YES (NO

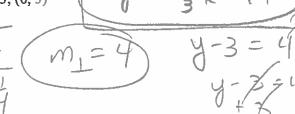
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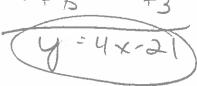
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7. $y \neq 1 - 19$ Circle your answer: YES NO	1 -
1/2 x - 1,5 5 1/2 x - 3 2/2 x - 3 2/2 x - 3	tifferent y-inter
Write an equation for the line that is parallel to the given line and t	hat passes through the given point.
8. $y = (-5)x + 3$; $(-6, 3)$	4-3=-5(x+6)
m=-5 Spory-3=-5(x+6)) 4-8=-5x-3
$9. y = \frac{3}{4} - 9. (-8, -18)$ $N = \frac{3}{4} (x+8) $ $4 + 18 = \frac{3}{4} (x+8) $ $4 + 18 = \frac{3}{4} (x+8) $	5/12/27 - 5x-27
ROMT-51 OPE (4= 3/4 x-12) 5/42	
Tell whether the lines for each pair of equations are parallel, perpen	dicular, or neither.
10. $7x - 4y = 4$ x - 4y = 3	X-48=3 y=4
-44-4	The little
11. $y = -\frac{1}{2}x - 11$ $16x - 8y = -8$ 11. $y = -\frac{1}{2}x - 11$ $16x - 8y = -8$ 12. $y = -\frac{1}{2}x - 11$ $y = -\frac{1}{2}x - 11$	+1/1
-84=-16x-3	
Write the equation of a line in slope-intercept form that is perpendic passes through the given point.	cular to the given line and that
12. $4x - 12y = 2$; (10, -1) $= -3$ $y - (-1) =$	-3(xd0)
-124=-4x+2 +	3(X-10)
サージーでは、サージー・サージー・サージー・サージー・サージー・サージー・サージー・サージー	3×+30
13. $y = \frac{2}{3}x + 9$; (-6, 5) $y = \frac{3}{3}x + 9$; (-6, 5) $y = \frac{3}{3}x + \frac{3}{3}x $	X +29
2 y 8 = 3 0	
0/ ₊₅ 2 x - 7	



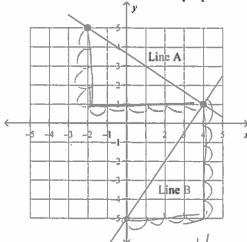
15. 3x + 12y = -3; (6, 3)



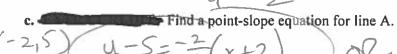


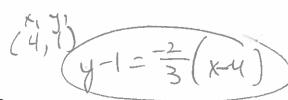


Assume that the two lines are perpendicular.



- a. Find the slope of line A.
- **b.** Find the slope of line B. +6 = 3





Find a slope-intercept equation for line B.

