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| **QUIZ 6** |
| **SEC. 3.3** |
| **1. FIND THE *X AND Y INTERCEPTS*, *THEN GRAPH*: $2x + 5y = 10$** |
| **2. FIND THE *X AND Y INTERCEPTS*, *THEN GRAPH:* $6x - 2y = 12$** |
| **3. GRAPH: $y = 4$** |
| **4. GRAPH: $x = 6$** |
| **SEC. 3.4** |
| **5. JASMINE BEGAN PROOF READING AT 9:00 AM. SHE STARTED AT THE TOP OF PAGE 93. SHE WORKED UNTIL 2:00 PM THAT DAY AND FINISHED PAGE 195. SHE BILLED THE PUBLISHERS $110 FOR THE DAY'S WORK .**<br>**(a) Find the rate of pay in dollars per hour.**<br>**(b) Find the average proofreading rate, in number of pages per hour.**<br>**(c) Find the rate of pay , in dollars per page.** |
| **SEC. 3.5** |
| **6. FIND THE SLOPE OF THE LINE CONTAINING THE PAIR OF POINTS. THEN *GRAPH* BY DRAWING A LINE BETWEEN THE TWO POINTS. (1, 4), (3, 6)** |
| **7. AGAIN, PLEASE FIND THE SLOPE OF THE LINE CONTAINING THE PAIR OF POINTS. THEN *GRAPH* BY DRAWING A LINE BETWEEN THE TWO POINTS. (0, 5), (-3, 0)** |
| **FOR THE NEXT TWO PROBLEMS: FIND THE SLOPE OF EACH LINE WHOSE EQUATION IS GIVEN. IF THE SLOPE IS UNDEFINED, THEN STATE THIS. IN EACH CASE, *GRAPH* THE LINE.** |
| **8. $y = -5$** |
| **9. $x = -4$** |
| **10. *CAPITAL RAPIDS* DROPS 28 FT OVER A HORIZONTAL DISTANCE OF 1080 FT. WHAT IS THE SLOPE OF THE LAND? BE CAREFUL ABOUT THE SIGN OF YOUR ANSWER.** |
| **SEC. 3.6** |
| **11. DRAW THE LINE THAT HAS THE GIVEN SLOPE AND Y- INTERCEPT.**<br>**Slope 3/5; y-intercept (0, -1)** |
| **12. DRAW THE LINE THAT HAS THE GIVEN SLOPE AND Y- INTERCEPT.**<br>**Slope -4/5; y-intercept (0, 6)** |
| **13. FIND THE SLOPE AND Y-INTERCEPT OF THE LINE WHOSE EQUATION IS GIVEN: $y = -(3/8)x + 4$** |
| **14. FIND THE SLOPE AND Y-INTERCEPT OF THE LINE WHOSE EQUATION IS GIVEN: $3x + 4y = 12$** |
| **15. FIND THE SLOPE-INTERCEPT EQUATION ($y = mx + b$) FOR THE LINE WITH THE INDICATED SLOPE AND Y-INTERCEPT : Slope -5/7 ; y-intercept (0,4)** |

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| **16. GRAPH: $y = -(2/3)x - 3$** |
| **17. DETERMINE WHETHER THIS PAIR OF LINES REPRESENTS PARALLEL LINES: $y = -(1/3)x - 2$ and $y = -(2/6)x + 5$** |
| **SEC. 3.7** |
| **18. WRITE A POINT-SLOPE EQUATION FOR THE LINE WITH THE GIVEN SLOPE THAT CONTAINS THE GIVEN POINT: $m = 7/2$; (-3, 4)** |
| **19. WRITE THE SLOPE-INTERCEPT ($y = mx + b$) FOR THE LINE WITH THE GIVEN SLOPE THAT CONTAINS THE GIVEN POINT: $m = 3$; (6,2)** |
| **20. GRAPH: $y - 2 = (1/2)(x - 1)$** |
| **SEC. 7.1** |
| **21. DETERMINE WHETHER EACH ORDERED PAIR IS A SOLUTION OF THE SYSTEM OF EQUATIONS.**<br>**(1, 4); $5x - 2y = -3$**<br>**$7x - 3y = -5$**<br>**HINT: SEE EXAMPLE 1** |
| **22. SOLVE THE SYSTEM OF EQUATIONS BY GRAPHING. IF THERE IS NO SOLUTION ( PARALLEL LINES) OR AN INFINITE NUMBER OF SOLUTIONS (SAME LINE) , STATE THIS.**<br>**$y = (1/3)x + 1$**<br>**$y = (1/3)x - 2$** |
| **SEC. 7.2** |
| **SOLVE THE NEXT PROBLEMS USING THE SUBSTITUTION METHOD:** |
| **23.**<br>**$x + y = 5$**<br>**$x = y + 1$** |
| **24.**<br>**$x = y - 6$**<br>**$3x + 2y = 2$** |
| **25.**<br>**$x - y = 2$**<br>**$x + y = -4$** |
| **26. TWO ANGLES ARE SUPPLEMENTARY. ONE ANGLE IS 8 DEGREES LESS THAN THREE TIMES THE OTHER. FIND THE MEASURE OF EACH ANGLE.**<br>**HINT: SEE EXAMPLE 5.** |