Homework 11 (Due: Friday, November 18)

**Score:**

4 A 90-100% (17-20)

3 B 80-89% (14-16)

2 C 70-79% (10-13)

1 D 60-69% (5-9)

0 U 50-55% (0-4)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1. Identify the slope. Show your work.

|  |  |  |  |
| --- | --- | --- | --- |
| **X** | 3 | 5 | 100 |
| **Y** | 18 | 30 | 600 |

 | 2. Identify the slope. Show your work.

|  |  |  |  |
| --- | --- | --- | --- |
| **X** | 0 | 8 | 50 |
| **Y** | 0 | 4 | 25 |

 | 3. Write the equation (y=mx). Show your work.

|  |  |  |  |
| --- | --- | --- | --- |
| **X** | 16 | 4 | 80 |
| **Y** | 4 | 1 | 20 |

 | 4. Write the equation (y=mx). Show your work.

|  |  |  |  |
| --- | --- | --- | --- |
| **X** | 3 | 8 | -2 |
| **Y** | 21 | 56 | -14 |

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| 5. Write the equation in the form y=mx+b. Show/explain your work. | 6. Write the equation in the form y=mx+b. Show/explain your work. | 7. Write the equation in the form y=mx+b. Identify the slope & the y-intercept.*A cell phone company charges a $35 monthly fee, plus $0.58 per text message.* | 8. Write the equation in the form y=mx+b. Identify the slope & the y-intercept.*A salesperson earns a salary of $200 and then $50 for every sale.* |
| 9. Write the equation in the form y=mx+b. Show/explain your work.http://mathforum.org/cgraph/cslope/pictures/intercept/blueslopeonethird.gif | 10. Write the equation in the form y=mx+b. Show/explain your work. | 11. Write the equation in the form y=mx+b. Show/explain your work. | 12. Write the equation in the form y=mx+b. Show/explain your work.https://www.filepicker.io/api/file/fkXczAwHSsiHftzpNmoa?policy=eyJleHBpcnkiOjQ1NTg5ODY5NjAsImNhbGwiOiJyZWFkIn0%3D&signature=99571cbec16a027370fcedc747f069e0a82d6eea8c103a413c3040dff6e5b55a |
| 13. Write the equation in the form y=mx+b. Show/explain your work.http://mdk12.msde.maryland.gov/assessments/high_school/look_like/2002/algebra/images/18alg.gif | 14. Write the equation in the form y=mx+b. Show/explain your work.http://hotmath.com/hotmath_help/topics/rate-of-change/image008.gif | 15. Use the situation below for #s 15,16,17,20.Jules feeds her dog Otto the same amount every morning and afternoon. By the end of the week (7 days), she has fed him 21 cups of food. Identify and interpret the slope of *y* cups of food in *x* days. | 16. Use the information from #15 to create a table. |
| 17. Use the information from #15 to make a graph. | 18. Use the situation below for #s 18,19,20.Mikey feeds his dog Lucky the same amount every morning and afternoon. After 2 weeks (14 days), he has fed her 17½ cups of food. Identify and interpret the slope of *y* cups of food in *x* days. | 19. Use the information from #15 to create an equation in the form *y=mx+b*. | 20. Use the information from #15 & #18 to answer the question: Which dog eats more, Otto or Lucky? How do you know? |
| What (if anything) do you still need more help with? |