Wednesday, January 30, 2013

- Agenda:
- TISK, No MM HW Check
- Lesson 12-5: Linear Functions
- Homework: Ch 12 HW Packet #2, §12-5 problems
 TISK Problems
- 1. Write an equation in slope-intercept form for a line
- that passes through the points (3, 5) and (0, 1).
 Find the probability of rolling a multiple of 3 then a
- multiple of 4 on a fair 12-sided die numbered 1-12. 3. Write and solve a proportion:
- Thirty is what percent of 40?



Homework Check 4. No, there is an x in the denominator. 5. Yes, it passes the VLT. 6. Yes, every input has only 1 output. 7. No, the input 6 has two outputs, 1 and 15. 8. f(0) = 1, f(2) = 19, f(-3) = 649. f(0) = -1, f(2) = 1, f(-3) = -410. f(0) = 11, f(2) = 8.5, f(-3) = 8011. D: [1,5] R: {1,2}U[3,5] 12. D: (5. -2.0.2.5.7.0)

12. D: $\{-5, -3, 0, 2, 5, 7, 9\}$ R: $\{-9, -8, -7, -6, -5, 4, 8\}$

§12-5 Linear Functions

• One type of function is a *linear* function.

- Linear functions make straight lines.
- These are the same lines we studied in chapter 10!
- How can you tell if a function is linear?
 - Is it a function?
 - Does its graph make a straight line?
 - Then it's a linear function!
 - Can its formula be written as f(x) = mx + b?
 - Then it's a linear function!















