Find the slope and the y-intercept of the line represented by the equations.

1. \(y = 10 + 3x\)  
   - slope ________  
   - y-intercept ________

2. \(y = -3x\)  
   - slope ________  
   - y-intercept ________

3. \(x + 2y = 4\)  
   - slope ________  
   - y-intercept ________

Plot the points on a coordinate grid and draw a line through them. Find the slope of the line and the y-intercept from the graph.

4. \((0 , 0)\) and \((3 , 3)\)
   - slope _____  
   - y-intercept _____

5. \((0 , -5)\) and \((-2 , -3)\)
   - slope _____  
   - y-intercept _____

6. \((-1 , 3)\) and \((1 , -1)\)
   - slope _____  
   - y-intercept _____

7. \((-1 , 7)\) and \((1 , 3)\)
   - slope _____  
   - y-intercept _____
For questions 8 - 11, determine which linear relationship(s) below fit each description.

8. The line for this relationship has a positive slope.  

9. The line for this relationship has a slope of -2.  

10. The line for this relationship has a slope of 0.  

11. The line for this relationship is not a function.  

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