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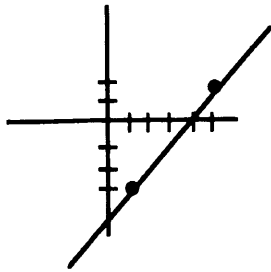
1. a) Plot the points (0, 0), (1, 2), (3, 6), (-2, -4).
- b) Plot the points (1, 2), (2, 0), (3, -2), (4, -4).
- c) Plot the points (-6, -5), (-3, -2), (0, 1), (3, 4).

Example 1: Consider the points (5,2), and (2,-3). Determine:
a) the slope of the line through the two points,
b) an equation of the line and
c) its graph.

a) Slope: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-3)}{5 - 2} = \frac{5}{3}$

b) Use the point-slope formula: $y - y_1 = m(x - x_1)$
 $y - 2 = \frac{5}{3}(x - 5)$

c)



For each of the pairs of points in problems 2-15:

- a) Determine the slope.
- b) Determine the equation of the line through the two points.
- c) Draw the graph.

2. (2,3), (0,0)

3. (-1,5), (0,0)

4. (6,2), (5,2)

5. (6,2), (5,1)

6. (-1,2), (3,5)

7. (-2,-3), (-5,-4)

8. (-2,-5), (1,-7)

9. (9,-3), (7,-1)

10. (73,27), (23,-13)

11. (17,-5), (6,-13)

12. (5,-2), (5,3)

13. (-2,3), (4,-3)

14. (0,5), (3,-7)

15. (-2,1), (-2,0)