Practice Problems for X-Y Coordinates and Graphs

from www.topmath.info

1 What point is 9 units to the left of (13,4)?

2 The points (-24,15), (-18,15), and (-24,9) are three corners of a rectangle. What is the fourth point?

3 What point is 5 units below (-2,-18)?

4 What point is 10 units to the left of (-16,2)?

5 What is the slope of the line x = -y?

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6 What is the slope of the line y = x/6 ?

7 What is the slope of the line whose equation is 4x - y = 2?

8 What is the slope of the line y = x/3 ?

9 What is the slope of the line y = x/4 + 13 ?

10 What is the slope of the line y = x/1 - 1 ?

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11 What are the coordinates of the point at which the line that contains (-2,0) and (1,-2) passes through the Y axis?

12 A line going through (7,-7) has a slope of -6. What is the Y intercept of the line?

13 What is the equation of the line whose X intercept is (-7,0) and whose Y intercept is (0,-6) ?

14 What point is 9 units below (2,6)?

15 What point is 3 units to the left of (0,2)?

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1 ANSWER: (4,4)

2 ANSWER: (-18,9). EXPLANATION: Since one X value appears twice, and one Y value appears twice, the fourth point must be the one that would make the other X and Y values appear twice in the completed list of points.

3 ANSWER: (-2,-23)

4 ANSWER: (-26,2)

5 ANSWER: -1

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6 ANSWER: 1/6

7 ANSWER: 4. EXPLANATION: Subtract 4x from each side to make the equation read -y = -4x + 2. Now multiply both sides by -1, and the equation reads y = 4x - 2. This is now in the form y = mx + b, where m (4) is the slope.

8 ANSWER: -1/3

9 ANSWER: 1/4

10 ANSWER: -1/1

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11 ANSWER: (0,-1 1/3). EXPLANATION: The X-coordinate of the Y-intercept will be 0, by definition. The slope of the line is the change in Y divided by the change in X, in this case, (-2 - 0) / (1 - -2), which equals -2/3. Going from the first point, (-2,0), to the Y axis requires a move of 2 units in the X direction. Multiplying this value by the slope, we see that we must move by -4/3 units in the Y direction from (-2,0), which means the line intersects the Y axis at (0,-1 1/3).

12 ANSWER: (0,35). EXPLANATION: The Y axis is 7 units to the left of point (7,-7). Because it is to the left, we multiply 7 by the negative of the slope (6) to see that the line moves by 42 units in the Y direction from the given point to the Y intercept. Add this to the Y coordinate of (7,-7) to get the Y coordinate of the Y intercept.

13 ANSWER: Y = -6X/7 - 6. EXPLANATION: In going from the X intercept to the Y intercept, the line changes by -6 in the Y direction, and by 7 in the X direction. The slope is therefore -6/7, and the Y intercept is given as -6.

14 ANSWER: (2,6)

15 ANSWER: (-3,2)