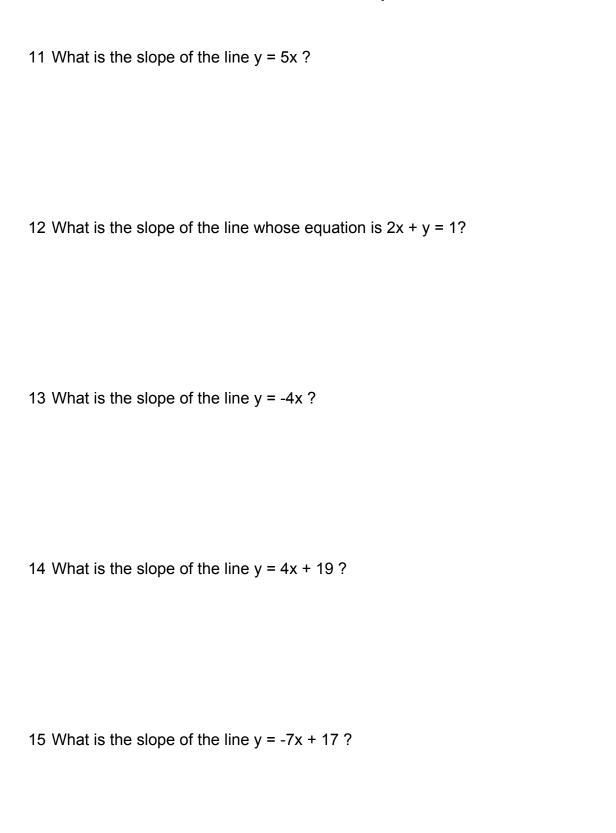
1 What is the slope of the line $y = x/3 + 2$?
2 What is the slope of the line y = x/10 - 6?
3 What are the coordinates of the point at which the line that contains (1,-2) and (6,-5) passes through the Y axis?
4 A line going through (-7,-8) has a slope of 5. What is the Y intercept of the line?
5 What is the equation of the line whose X intercept is (-2,0) and whose Y intercept is (0,-4) ?

Please e-mail comments and suggestions to: edu@ezlink.com

6	What point is 4 units below (4,9)?
7	What point is 7 units to the left of (6,7)?
8	The points (-13,32), (-8,32), and (-13,23) are three corners of a rectangle. What is the fourth point?
9	What point is 7 units below (9,-10)?
10	What point is 4 units to the left of (7,-1)?

Please e-mail comments and suggestions to: edu@ezlink.com



1 ANSWER: 1/3	
2 ANSWER: -1/10	
3 ANSWER: (0,-1 2/5). 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 (-52) / (6 - 1), which equals -0.6. Going from the first point, (1,-2), to the Y axis requires a move of -1 units in the X direction. Multiplying this value by the slope, we see that we must move by 0.6 units in the Y direction from (1,-2), which means the line intersects the axis at (0,-1 2/5).	S
4 ANSWER: (0,27). EXPLANATION: The Y axis is 7 units to the right of point (-7,-8). Multiply this by the slope of the line (5) to see that the line moves by 35 units in the Y direction from the given point to the Y intercept. Add this to the Y coordinate of (-7,-8) to get the Y coordinate of the Y intercept.	
5 ANSWER: Y = -2X/1 - 4. EXPLANATION: In going from the X intercept to the Y intercept the line changes by -4 in the Y direction, and by 2 in the X direction. The slope is therefor 2/1, and the Y intercept is given as -4.	

6	ANSWER: (4,9)
7	ANSWER: (-1,7)
8	ANSWER: (-8,23). 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.
9	ANSWER: (9,-17)
10	ANSWER: (3,-1)

Please e-mail comments and suggestions to: edu@ezlink.com

11 ANSWER: 5	
12 ANSWER: -2. EXPLANATION: Subtract 2x from each side to make the equation -2x + 1. This is now in the form y = mx + b, where m (-2) is the slope.	ı read y =
13 ANSWER: -4	
14 ANSWER: 4	
15 ANSWER: -7	