# Straight Line Graph Questions

1. Complete the following table of values for each of the equations below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
|  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

1. Draw a set of *x* and *y* axes on squared paper, with the *x*-axis ranging from -3 to 3 and the *y*-axis ranging from -10 to 10. Using your tables of values from Q1, plot each of the straight lines given by the equations above on the same graph.
2. Write down the gradients and *y*-intercepts of the lines represented by the following equations:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

*[Hint for g): If mx = 0 for any value of x, what must m be?]*

*[Hint for h) onwards: rewrite the equations in the form y = mx + c, then read off the gradient and y-intercept as before]*

1. Calculate the gradients and y-intercepts of the following graphs, then write down their equations: