**Straight Line graphs (Higher)**

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| **Literacy**Gradient, intercept, formula, coordinate, linear | **Research**What is the relationship between a line and its perpendicular? | **Memory**Learn the different forms of the equations of a linear graph |
| **Skills**Can you work out the equation of the straight line in each case?1) passing through (7, 17) with gradient 22) passing through (0, 8) and (12 ,0)3) passing through (6, 0) with gradient -3/44) passing through (1, 8) and (5, 10)5) passing through (-4, -2) and (-1, -4) | **Stretch**1. Can you find two integer coordinates that satisfy $y=-\frac{8}{7}x+\frac{104}{7}$
2. Can you rearrange the above equation into a better form?
3. What is the gradient and y intercept of 3y-2x-11=0
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