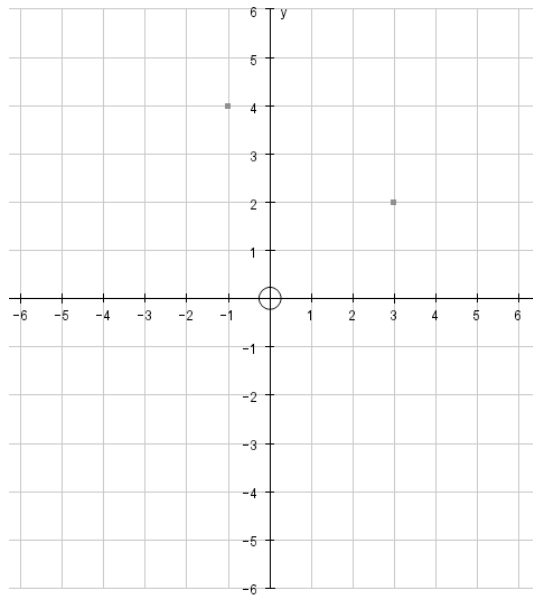


## Straight Line Co-ordinate Geometry

Given that A is the point  $(-1, 4)$  and B is the point  $(3, 2)$  find:



|  |   |
|--|---|
| <p>1. The mid-point of AB</p> <p>Formula;</p> <p>Answer;</p>         | <p>2. The length of AB</p> <p>Formula;</p> <p>Answer;</p>                 |
| <p>3. The gradient of the line AB</p> <p>Formula;</p> <p>Answer;</p> | <p>4. The gradient perpendicular to AB</p> <p>Formula;</p> <p>Answer;</p> |

5. The equation of the line joining AB. Give your answer in  $y = mx + c$  form and also in the form  $ax+by+c=0$  with a, b and c integers.

6. The equation of the perpendicular bisector of AB