 Comparing Vectors in 2D and 3D

|  | 2 Dimensions | 3 Dimensions |
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| Representing vectors |  |  |
| Vector arithmetic |  |  |
| Calculating magnitude |  |  |
| Unit vectors |  |  |
| Scalar Product |  |  |
| Geometric results   * Distance formula * Midpoints |  |  |
| Representing Curves |  |  |
| Finding equation of line through two points |  |  |
| Testing parallel and perpendicular lines |  |  |
| Testing a point lies on a line |  |  |