# Finding the Midpoint

Find the midpoint of the following points. You can do this either by plotting them on the grid above or by using the formula:

|  |  |  |  |
| --- | --- | --- | --- |
| a) (-6,-6) (-2,-2) |  | b) (-10, 5) (-6,3) |  |
| c) (12,-4) (6, -2) |  | d) (4,-2) (-3,6) |  |
| e) (-7,-7) (-4,6) |  | f) (18, -27) (-1,-22) |  |

**Extension**

Work out the end point of a line segment which has:

|  |  |
| --- | --- |
| ***1) an endpoint of (4,2) and a midpoint of (6,0)*** |  |
| ***2) an endpoint of ( -4,1) and a midpoint of (-1,3)*** |  |
| ***3) an endpoint of (6,-10) and a midpoint of (-1,2)***  |  |

**>>> Challenge:**

 **Find the coordinates of the midpoint of *OE*.**

1. **(0,0,4)**
2. **(0,1,0)**
3. **(0,5,4)**
4. **(0,5,0)**
5. **(6,0,3)**
6. **(5,0,1)**
7. **(6,1,0)**
8. **(6,5,0)**

