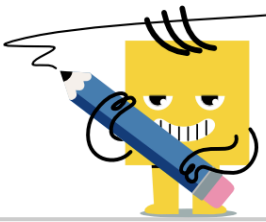
Name



# Line Segment (Points) - Find Perpendicular Bisector (Formula)

**1** Find the equation for the perpendicular bisector of segment AB

Point A: (1, 10)
Point B: (7, 6)

| | | | |
|---|---|---|---|
| A | $y = \frac{3}{2}x + -8$ | B | $y = \frac{3}{2}x + \frac{5}{2}$ |
| C | $y = \frac{3}{2}x + 2$ | D | $y = \frac{3}{2}x + 6$ |

**2** Find the equation for the perpendicular bisector of segment AB

Point A: (5, 10)
Point B: (7, 8)

| | | | |
|---|---|---|---|
| A | $y = \frac{1}{4}x + \frac{15}{2}$ | B | $y = 1x + 1$ |
| C | $y = 1x + 3$ | D | $y = 1x + -3$ |

**3** Find the equation for the perpendicular bisector of segment AB

Point A: (6, 7)
Point B: (8, 3)

| | | | |
|---|---|---|---|
| A | $y = \frac{1}{2}x + \frac{9}{2}$ | B | $y = \frac{1}{2}x + 3$ |
| C | $y = \frac{1}{2}x + \frac{1}{2}$ | D | $y = \frac{1}{2}x + \frac{3}{2}$ |

**4** Find the equation for the perpendicular bisector of segment AB

Point A: (1, 9)
Point B: (3, 7)

| | | | |
|---|---|---|---|
| A | $y = 1x + 3$ | B | $y = 1x + -6$ |
| C | $y = 1x + 6$ | D | $y = \frac{1}{4}x + \frac{15}{2}$ |

**5** Find the equation for the perpendicular bisector of segment AB

Point A: (1, 10)
Point B: (5, 2)

| | | | |
|---|---|---|---|
| A | $y = 2x + -0$ | B | $y = \frac{4}{7}x + \frac{30}{7}$ |
| C | $y = \frac{1}{2}x + \frac{9}{2}$ | D | $y = \frac{1}{2}x + -0$ |

**6** Find the equation for the perpendicular bisector of segment AB

Point A: (4, 10)
Point B: (8, 4)

| | | | |
|---|---|---|---|
| A | $y = \frac{2}{3}x + \frac{19}{3}$ | B | $y = \frac{2}{3}x + 4$ |
| C | $y = \frac{2}{3}x + \frac{4}{3}$ | D | $y = \frac{2}{3}x + 3$ |

**7** Find the equation for the perpendicular bisector of segment AB

Point A: (4, 2)
Point B: (8, 8)

| | | | |
|---|---|---|---|
| A | $y = -\frac{2}{3}x + \frac{28}{3}$ | B | $y = -\frac{2}{3}x + 9$ |
| C | $y = -\frac{2}{3}x + \frac{16}{3}$ | D | $y = -\frac{3}{2}x + 14$ |

**8** Find the equation for the perpendicular bisector of segment AB

Point A: (2, 1)
Point B: (6, 3)

| | | | |
|---|---|---|---|
| A | $y = 7x + -26$ | B | $y = -2x + 12$ |
| C | $y = -2x + 10$ | D | $y = -5x + 22$ |