

Straight Lines and Shape Problems

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1) Straight Lines and Shape Problems: Easier

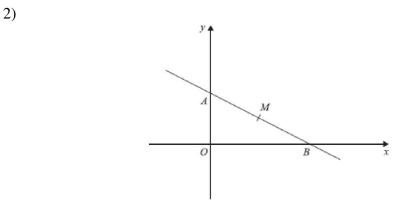
1) A and B are straight lines.

Line A has equation 2y = 3x + 8. Line B goes through the points (-1, 2) and (2, 8)

Do lines A and B intersect?

You must show all your working.

(2 Marks)



In the diagram

A is the point (0, 4)

B is the point (6, 0)

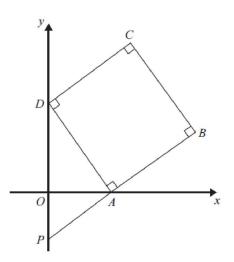
M is the midpoint of *AB*.

Find an equation of the line that passes through M and is perpendicular to AB.



1) Straight Lines and Shape Problems: Medium

3)



ABCD is a square P and D are points on the y-axis PAB is a straight line.

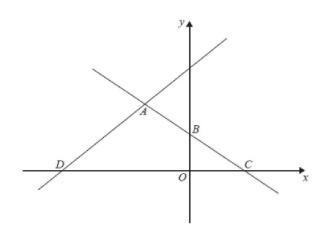
The equation of the line that passes through the points A and D is y = -2x + 5

Find the length of *PD*.



1) Straight Lines and Shape Problems: Harder

4)



In the diagram, *ABC* is the line with equation $y = -\frac{1}{2}x + 5$

AB = BC

D is the point with coordinates (-13, 0)

Find an equation of the line through A and D