### 30th September

**Work out the equation of the line passing through A (0, 1) and B (2, 4).**

**Write down the equation of the line perpendicular to AB and passing through (0, 7).**

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**Angle AOB is 60° and OA is 10cm. Find the perimeter of the sector.**

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**Write down the value of the range**

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**Solve**

\[
\frac{x}{2} + \frac{4x + 1}{10} = -8
\]

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**Material A has a density of 5.8g/cm³. Material B has a density of 4.1g/cm³.**

377g of Material A and 1.64kg of Material B form Material C.

**Work out the density of Material C.**