Area with... Equations of Straight Lines


The lines above are drawn on a centimetre grid.
Complete the table with:

- the name of each shape,
- the area of each shape,
- the lettered vertices of each shape,
- the equations of the line segments that form each shape's perimeter.

The first shape in the table has been completed as an example.

| Shape | Area | Vertices | Equations |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | Rectangle | $8 \mathrm{~cm}^{2}$ | $B C H M$ | \(\left.\begin{array}{l}x=1 \\

x=3 \\
y=-2 \\
y=2\end{array}\right)\)

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7

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| :---: | :---: | :---: | :---: | :---: |
| 1 | Rectangle | $8 \mathrm{~cm}^{2}$ | BCHM | $\begin{aligned} & x=1 \\ & x=3 \\ & y=-2 \\ & y=2 \end{aligned}$ |
| 2 | Trapezium | $6 \mathrm{~cm}^{2}$ | BCGM | $\begin{aligned} & x=3 \\ & x=1 \\ & y=2 \\ & y=3-x \end{aligned}$ |
| 3 | Isosceles Triangle | $8 \mathrm{~cm}^{2}$ | CHF | $\begin{aligned} & x=3 \\ & y=2 \\ & y=x-5 \end{aligned}$ |
| 4 | Parallelogram | $20 \mathrm{~cm}^{2}$ | ACFJ | $\begin{aligned} & y=x \\ & y=x-5 \\ & y=2 \\ & y=-2 \end{aligned}$ |
| 5 | Isosceles Triangle | $9 \mathrm{~cm}^{2}$ | EFM | $\begin{aligned} & y=x-5 \\ & y=3-x \\ & y=2 \end{aligned}$ |
| 6 | Isosceles Triangle | $12.25 \mathrm{~cm}^{2}$ | ADK | $\begin{aligned} & y=x \\ & y=3-x \\ & y=-2 \end{aligned}$ |
| 7 | Trapezium | $16 \mathrm{~cm}^{2}$ | ACHN <br> or BCFM |  |
| 8 | Trapezium | $17 \frac{1}{3} \mathrm{~cm}^{2}$ | ADMR | $\begin{aligned} & y=3 x+4 \\ & y=x-3 \\ & y=2 \\ & y=-2 \end{aligned}$ |

Area with... Equations of Straight Lines

| Sertices |
| :--- |
| Equations |

Area with... Equations of Straight Lines

|  | Shape | Area | Vertices | Equations |
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| $6$ | Isosceles Triangle | $12.25 \mathrm{~cm}^{2}$ | ADK | $\begin{aligned} & y=x \\ & y=3-x \\ & y=-2 \end{aligned}$ |
| The lines above are drawn on a centimetre grid. Complete the table with: <br> - the name of each shape, <br> - the area of each shape, | Trapezium | $16 \mathrm{~cm}^{2}$ | $\begin{gathered} \text { ACHN } \\ \text { or } \\ \text { BCFM } \end{gathered}$ |  |
| - the equations of the line segments that form each shape's perimeter. <br> The first shape in the table has been completed as an example. | Trapezium | $17 \frac{1}{3} \mathrm{~cm}^{2}$ | ADMR | $\begin{aligned} & y=3 x+4 \\ & y=x-3 \\ & y=2 \\ & y=-2 \end{aligned}$ |

