|  |  |
| --- | --- |
| **Geometry Revision**  | **6** |
| **(a)** | **(b)** | **(c)** | **(d)** |
| A cuboid has dimensions $4 cm$ by $9 cm$ by $12 cm$. Find the length of the diagonal AB to 1 decimal place. | Find the value of angle $x$. Give reasons for your answers. | Calculate the value of angle $x$. giving your answer to 1 decimal place. | The two cylinders A and B are similar. The surface areas of A and B are $24 cm^{2}$ and $73.5 cm^{2}$ respectively. Given the volume of cylinder B is $171.5 cm^{3}$, find the volume of cylinder A. |
| **(e)** | **(f)** | **(g)** | **(h)** |
| Find the area of the triangle shown, giving your answer to 3 significant figures. | Find the angle that the line $AG$ makes with the plane $EFGH$. | AB and CD are chords of the circle. Find the missing value $x$. | $\vec{OA}=a$ $\vec{OB}=b$$\vec{OB}=\vec{BE}$. C is the midpoint of OA. Given that CDE is a straight line, find $BD : DA$  |