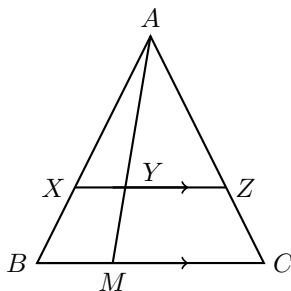
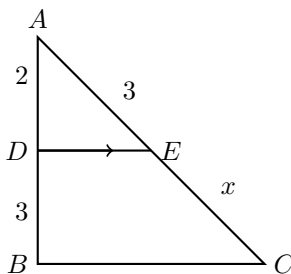


Construction

1. In the given figure, XZ is parallel to BC . $AZ = 3\text{cm}$, $ZC = 2\text{cm}$, $BM = 3\text{cm}$ and $MC = 5\text{cm}$. Find the length of XY .



2. In the given figure, $DE \parallel BC$. If $AD = 2\text{units}$, $DB = AE = 3\text{units}$ and $EC = x\text{units}$, then find the value of x is:



- | | |
|-------|-------------------|
| (a) 2 | (c) 5 |
| (b) 3 | (d) $\frac{9}{2}$ |

3. In the given figure, $\triangle ABC$ and $\triangle DBC$ are on the same base BC . If AD intersects BC at O , prove that $\frac{\text{ar}(\triangle ABC)}{\text{ar}(\triangle DBC)} = \frac{AO}{DO}$.

