

Similar Figures: When figures are drawn in such a way that they have equal angles and proportional sides. The symbol to indicate similar figures is "tilde" \sim .

Example 1.1:

Find the missing sides if $\triangle ABC \sim \triangle DEF$, $a = 5$, $c = 11$, $e = 12$, $f = 9$ (round the sides to the nearest tenth)

Example 1.2:

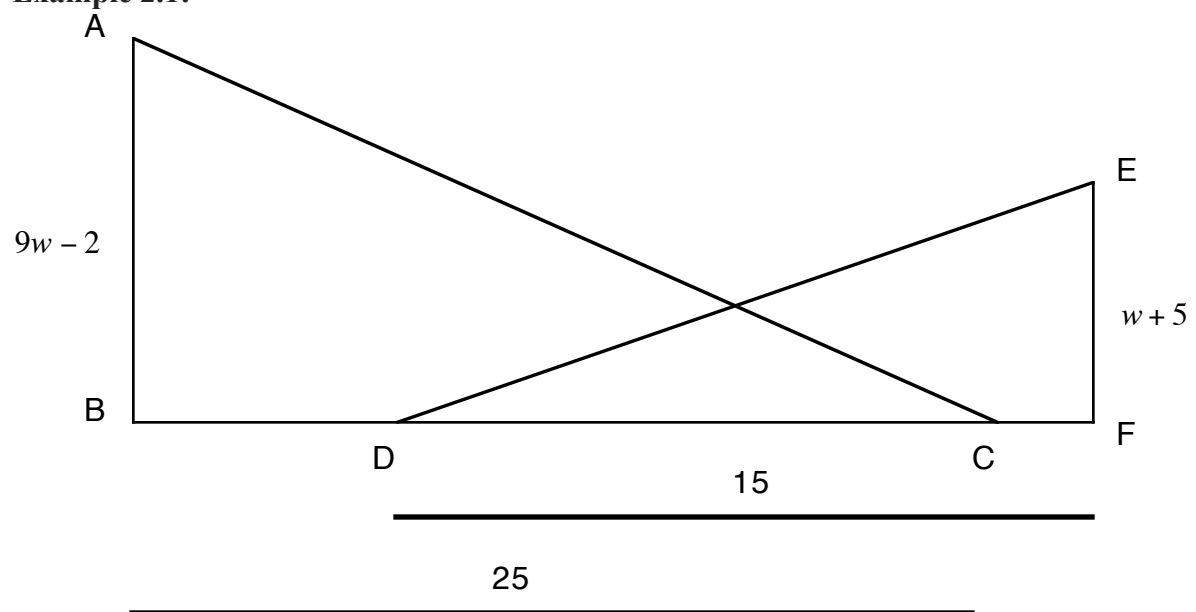
Find the missing sides if $\triangle GMP \sim \triangle WYZ$, $g = 3\frac{2}{5}$, $m = 7\frac{1}{2}$, $w = 9\frac{1}{3}$, $z = 4\frac{2}{5}$ (exact answer no decimals)

Idea:

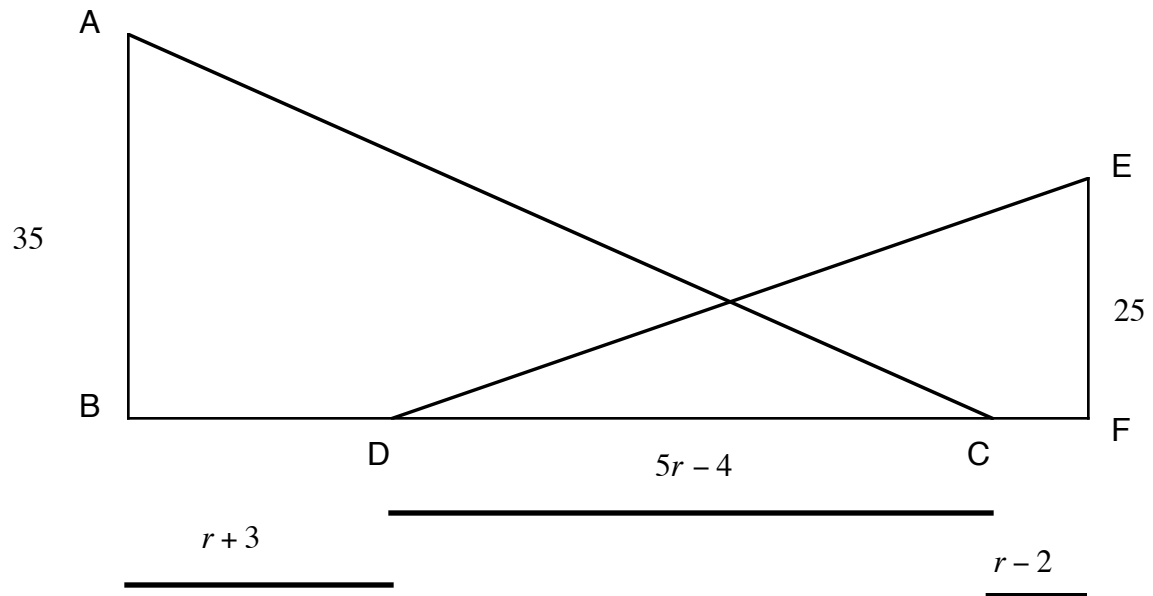
$$\frac{3k - 5}{\quad} + \frac{k + 9}{\quad} =$$

$$\frac{7w + 11}{\quad} + \frac{w + 4}{\quad} =$$

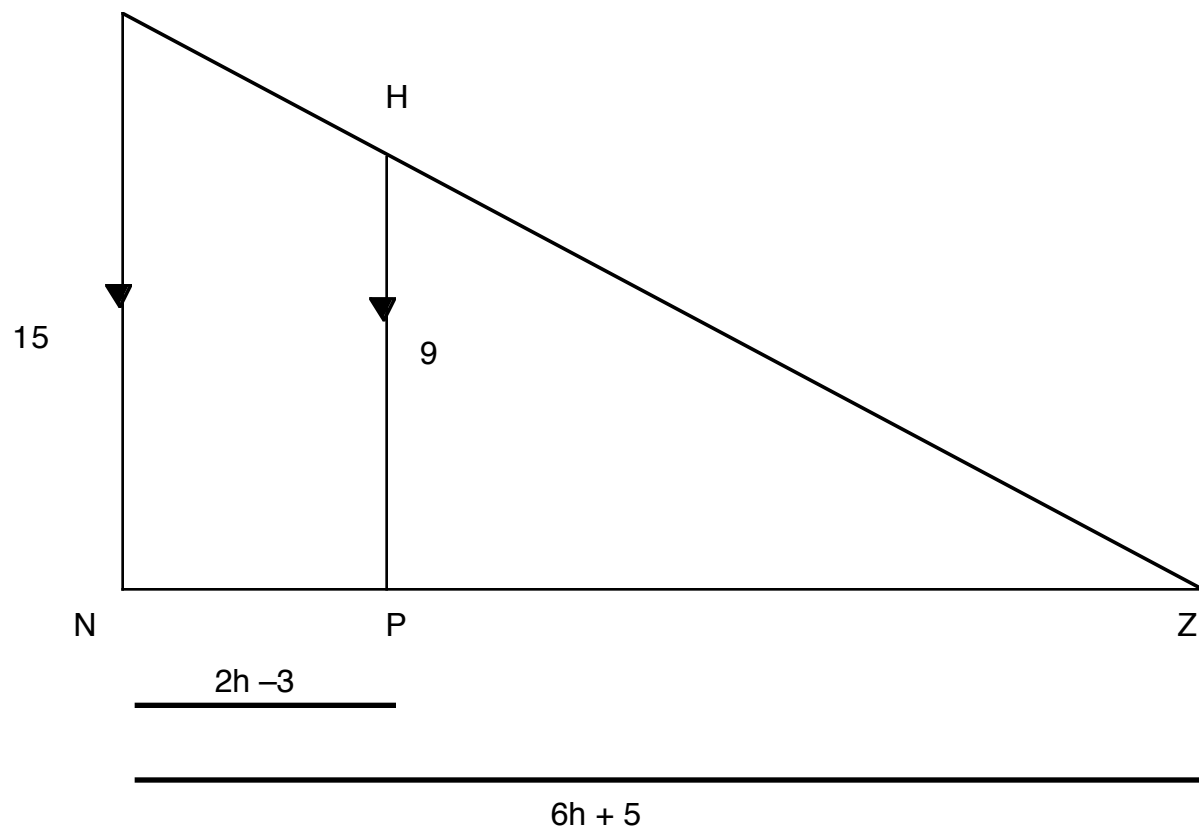
Example 2.1:



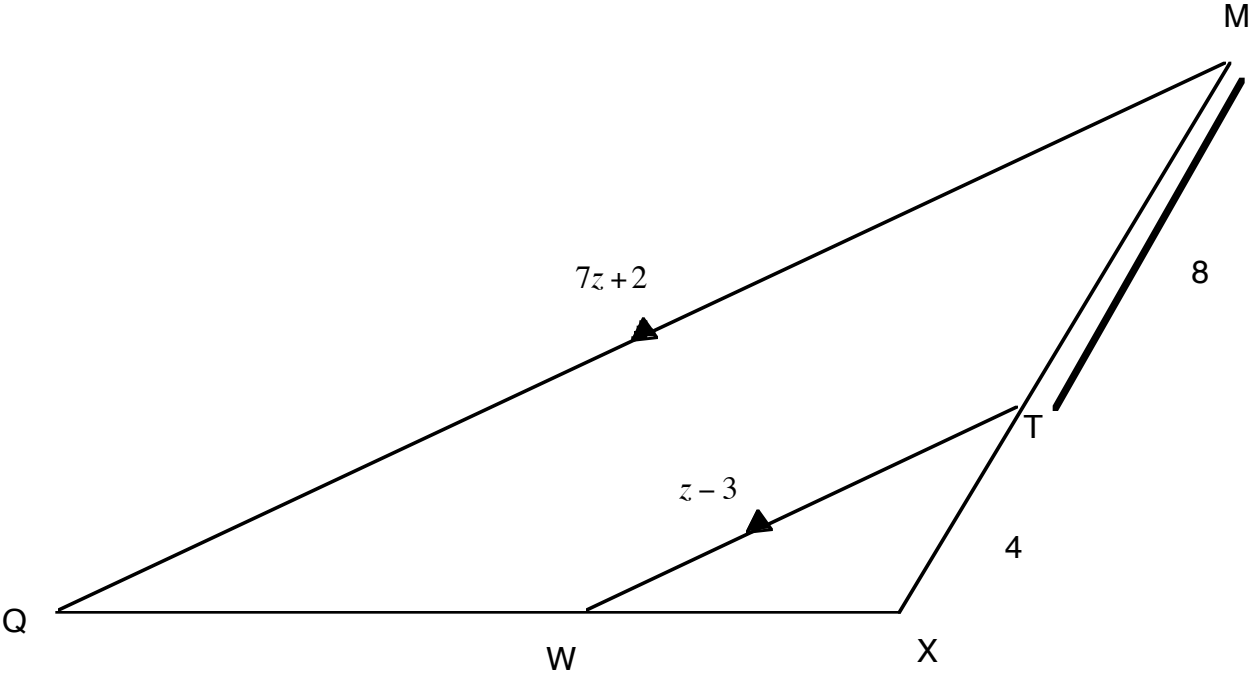
Example 2.2:



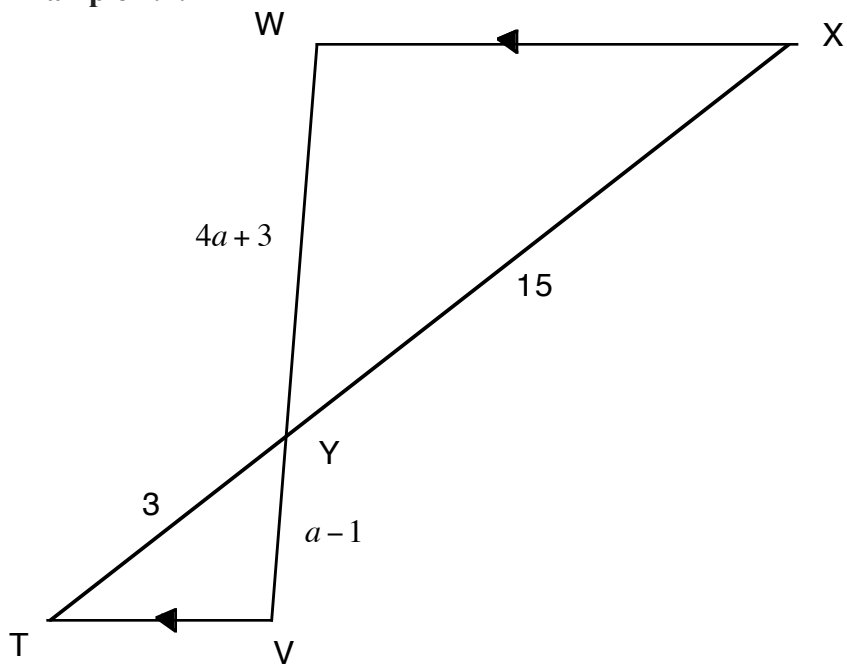
Example 3.1:
M



Example 3.2:



Example 4.1:



Example 4.2:

