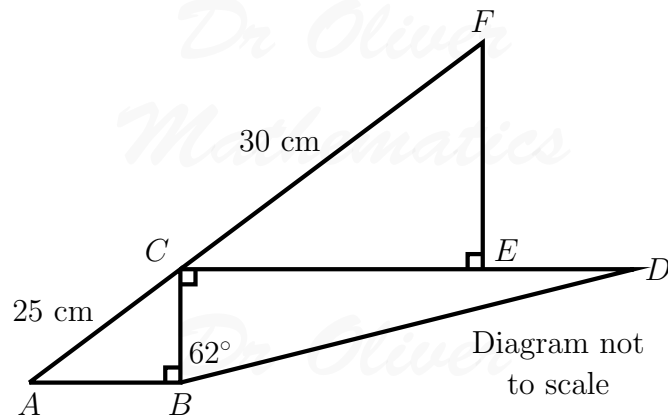


Dr Oliver Mathematics

Trigonometry: Part 1

1. We have three right-angled triangles – triangles ABC , BCD , and CDE – arranged as follows.



- ACF is a straight line.
- $AC = 25$ cm and $CF = 30$ cm.
- $\angle CBD = 62^\circ$.
- $3CD = 4CE$.

Find the area of $\triangle CEF$, to 3 significant figures.