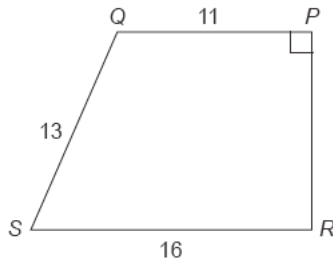
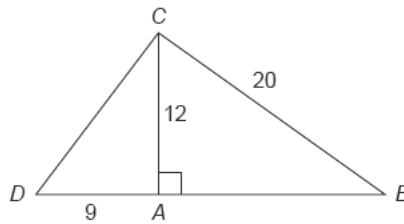


Pythagoras' Theorem Part 2

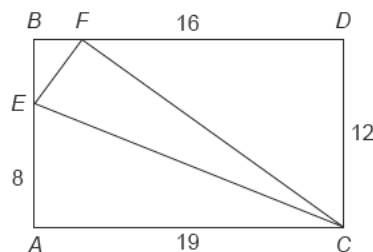
6. The following figure shows a trapezium with $PQ \parallel RS$, $PQ = 11$, $QS = 13$ and $RS = 16$.



- Find the length of PR .
 - Find the area of the trapezium.
7. In the figure, $AC = 12$, $AD = 9$, $BC = 20$ and BAD is a straight line.



- Find the length of CD .
 - Find the length of AB .
 - Show that $\triangle BCD$ is a right-angled triangle.
8. In the figure, $ABDC$ is a rectangle.



- Find FC , EC and EF in surd form.
- Show that $\triangle EFC$ is a right-angled triangle.
- Hence find the area of $\triangle EFC$.