(1) Find the area of each triangle giving your answers to 1 decimal place where appropriate.

(2) Find the area of each triangle below giving your answer to 1 decimal place. Be careful with one of them! (Hint…..Cosine…)

(3) Find the area of each triangle below giving your answer to 1 decimal place. You may need to do some work on them first!

(4) The diagram below shows a square with a triangle attached to one side. The triangle and the square share one side length. Given that the area of the square is $249\, \text{cm}^2$, find the area of the triangle as a percentage of the area of the square. Round your answer to the nearest one percent.

(5) Below is a picture of the isosceles trapezium $ABCD$. The line $BX$ is perpendicular to the line $DC$, $\angle BAX = 43^\circ$ and $\angle ADX = 79^\circ$.

(a) Find the length of the line $AX$.
(b) Find the area of $\triangle ADX$
(c) Find the area of the quadrilateral