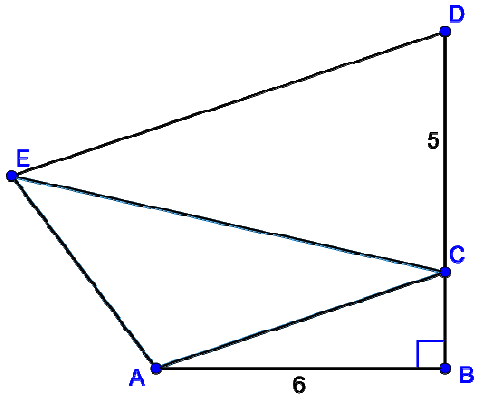
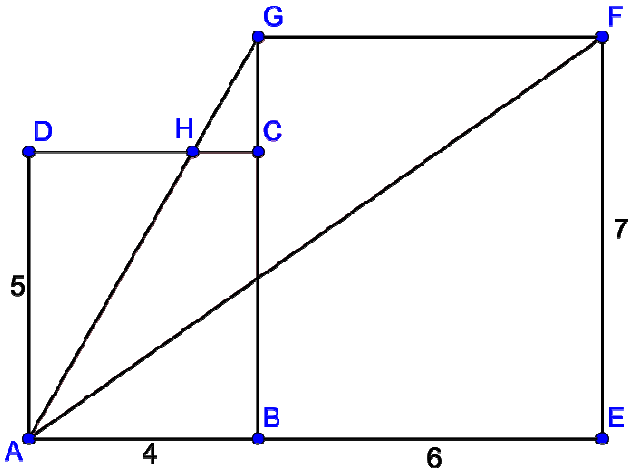
Easier Area of plane figures

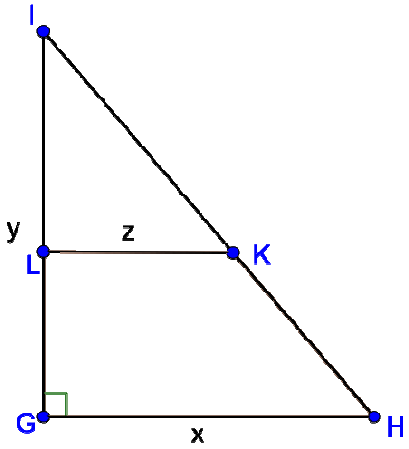
1. If $AC \parallel EB, \angle ABD = 90°, AB = 6, CD = 5$, find the area of ΔACE.



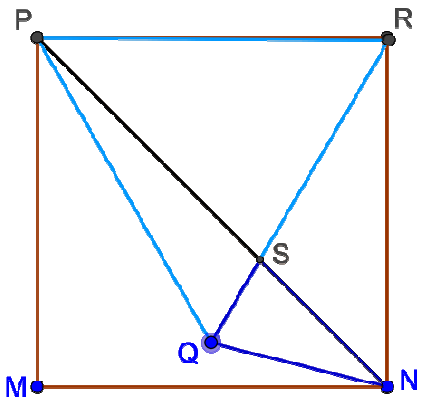
2. Two rectangles $ABCD, BEFG$ of dimensions $4 \times 5, 6 \times 7$ respectively are given. Find the shaded area $AFGCH$.



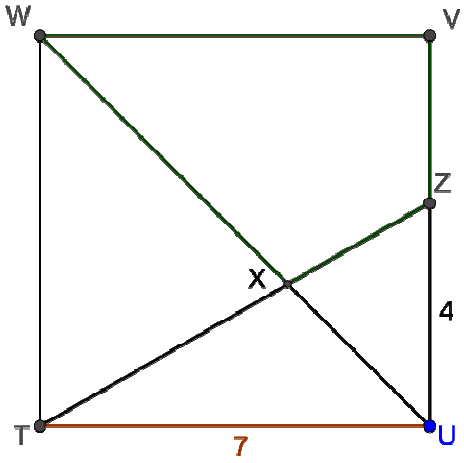
3. If $GH \parallel LK,\ \angle IGH = 90°, GH = x, GI = y, LK = z$,
find the area of trapezium $GHKL$ in terms of x, y and z .



4. If ΔPQR is equilateral and $PMNR$ is a square. Each side of the square is of unit 1, PM cuts QR at S, find the area of ΔQNS.



5. If $TUVW$ is a square of sides 7, $UZ = 4$, WU cuts TZ at X, find the area of $VWXZ$.



6. **(Quickie)** Given a triangle ΔABC right angled at A . If $BC = 11$ and the altitude from A to BC is 6 . Find the area of the triangle.