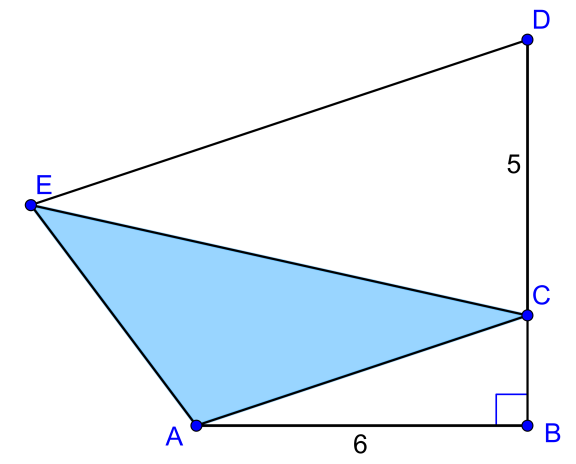
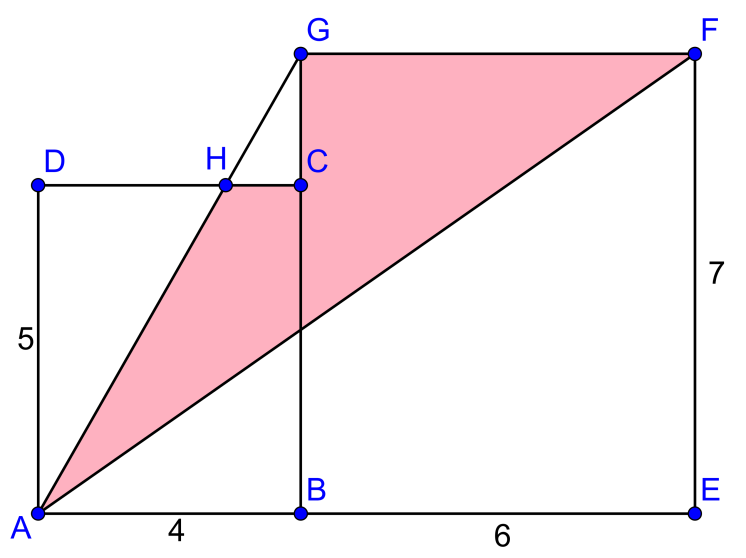
**Easier Area of plane figures**

**1.** If , find the area of .

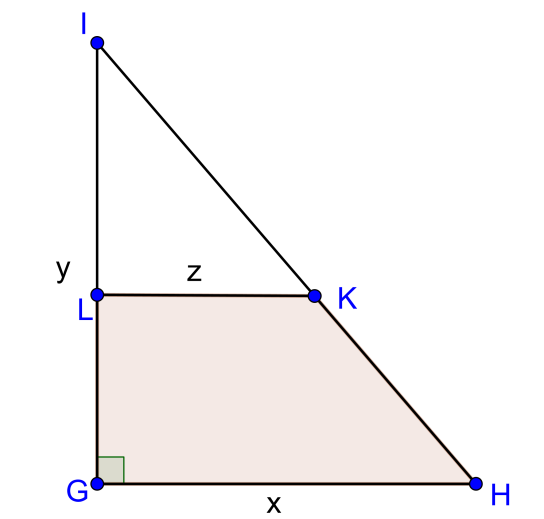


**2.** Two rectangles of dimensions respectively are given.

Find the shaded area .

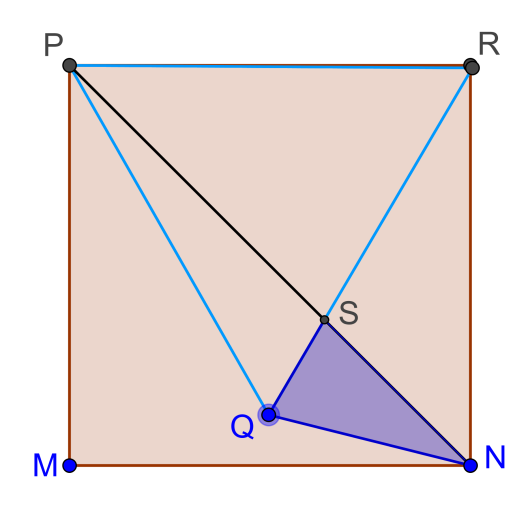


**3.** If ,   
 find the area of trapezium in terms of .

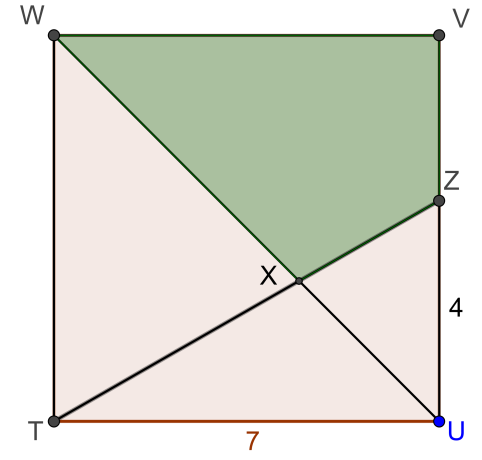


**4.** If is equilateral and is a square. Each side of the square is of unit 1,

cuts at , find the area of .



**5.** If is a square of sides 7, , cuts at , find the area of .



**6. (Quickie)** Given a triangle right angled at . If and the altitude from to is . Find the area of the triangle.

**Denote be the area of .**

**1.** , same height between parallel lines.

**2.**

**3.** Let

**4.**

|  |  |
| --- | --- |
| **Method 1**  Let h be the length of the perpendicular from S to NR. | **Method 2**  By Sine Law on , |

**5.**

**6.** The answer is **not** **.**

Draw a circle with BC as diameter. Then point A is a point on the circumference of the circle. (The theorem Angle in semi-circle ensures is right angle.) The maximum altitude drawn from A to BC is then the radius of the circle in which is isosceles.

However, the radius is . So there is **no possible solution**.