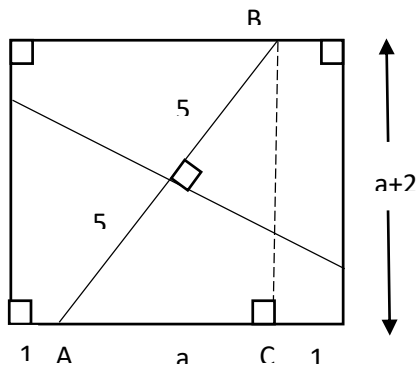


Geometry Area



Square

$a = ?$

$$10^2 - a^2 = (a+2)^2, \quad \Delta ABC$$

$$100 - a^2 = a^2 + 4a + 4$$

$$2a^2 + 4a - 96 = 0$$

$$a^2 + 2a - 48 = 0$$

$$(a-8)(a-6) = 0$$

$$a - 6 = 0 \Rightarrow a = 6$$

the side of the square  $a + 2 = 8$

Find the Area of trapezoid

$$a. \quad \Delta ABC \Rightarrow A_1 = \frac{2 \cdot 2}{2} = 2$$

$$A = 2 + 2 + 2 = 6$$

$$b. \quad \frac{2+4}{2} \cdot 2 = 6$$

