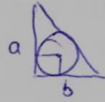


1.116
6.1c

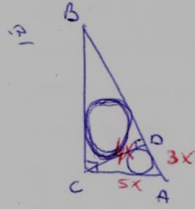


$$S = rp = \frac{ab}{2}$$

$$r = \frac{ab}{2p} =$$

$$\frac{ab}{2(a+b+\sqrt{a^2+b^2})} = \frac{ab}{a+b+\sqrt{a^2+b^2}}$$

הנחיה: הוכיחו כי $r = \frac{ab}{a+b+\sqrt{a^2+b^2}}$



$$(S.S) \triangle ADC \sim \triangle CDB$$

3:4 הוכיחו כי $AD = 3x$ ו- $CD = 4x$

$$\begin{aligned} AD &= 3x \\ CD &= 4x \\ AC &= 5x \end{aligned}$$

$$6 = \frac{3x \cdot 4x}{3x+4x+5x} = x$$

$$\frac{4}{3} = \frac{BC}{5x} \rightarrow BC = 40$$

$$S_{ABC} = \frac{AC \cdot BC}{2} = \frac{40 \cdot 30}{2} = 600$$