

TOTAL AREA = 1236.0773

$$\begin{aligned} 16 &= \sqrt{a^2 + b^2} \\ 256 &= a^2 + b^2 \\ 256 &= 2x^2 & a=b=x \\ 128 &= x^2 \\ \sqrt{128} &= x = 11,3137 \end{aligned}$$

