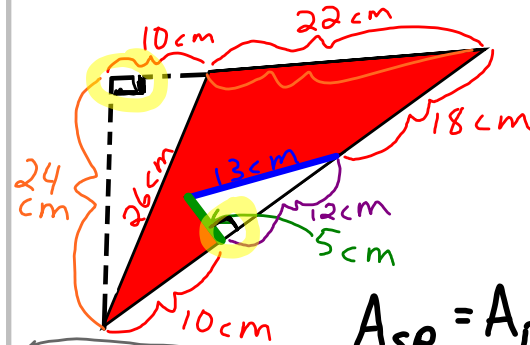


April 30, 2007

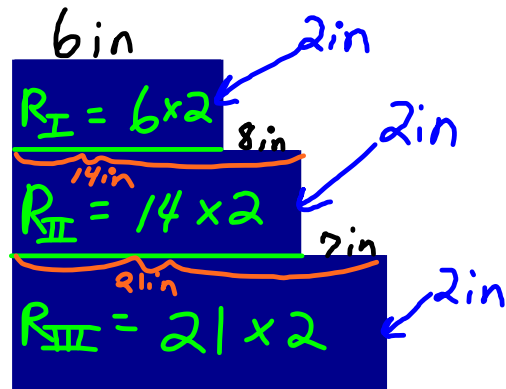


the Base & the height
form a 90° angle

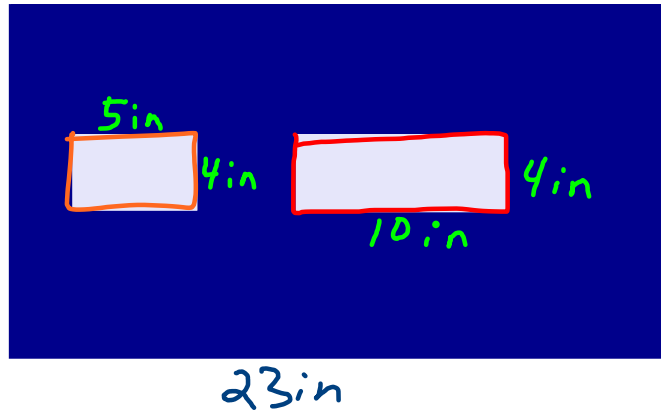
$$A_{SR} = A_{BT} - A_{LT}$$

$$\begin{aligned} A_{BT} &= \frac{1}{2}(b \cdot h) \\ &= \frac{1}{2}(22\text{ cm} \cdot 24\text{ cm}) \\ &= \frac{1}{2}(528\text{ cm}^2) \\ &= 264\text{ cm}^2 \end{aligned} \quad \left(\begin{aligned} &= 264\text{ cm}^2 - 30\text{ cm}^2 \\ &= 234\text{ cm}^2 \end{aligned} \right)$$

$$\begin{aligned} A_{LT} &= \frac{1}{2}(b \cdot h) \\ &= \frac{1}{2}(12\text{ cm} \cdot 5\text{ cm}) \\ &= \frac{1}{2}(60\text{ cm}^2) \\ &= 30\text{ cm}^2 \end{aligned}$$



$$\begin{aligned} A_{SR} &= A_{R_I} + A_{R_{II}} + A_{R_{III}} \\ &= 12\text{ in}^2 + 28\text{ in}^2 + 42\text{ in}^2 \\ &= \underline{\underline{82\text{ in}^2}} \end{aligned}$$



$$A_{SR} = A_{LR} - A_{MR} - A_{SR}$$

$$A_{LR} = 23\text{ in} \cdot 9\text{ in} \\ = \underline{207\text{ in}^2}$$

$$A_{MR} = 10\text{ in} \cdot 4\text{ in} \\ = \underline{40\text{ in}^2}$$

$$A_{SR} = 5\text{ in} \cdot 4\text{ in} \\ = \underline{20\text{ in}^2}$$

$$= 207\text{ in}^2 - 40\text{ in}^2 - 20\text{ in}^2 \\ = \underline{\underline{147\text{ in}^2}}$$