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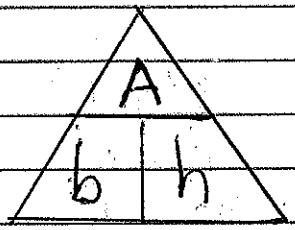
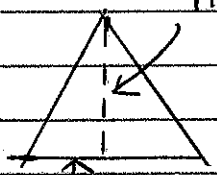
Area of Triangles

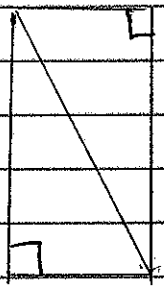


$A = b \times h$

$h = \frac{A}{b}$

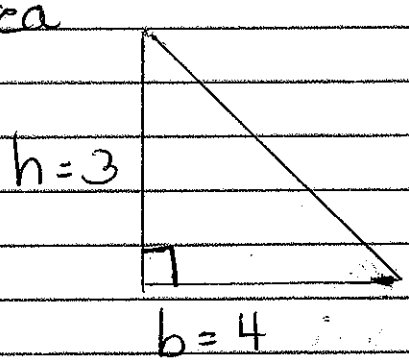
$b = \frac{A}{h}$





$A = \frac{1}{2} b \times h$
(is true for a right angle triangle)

Area



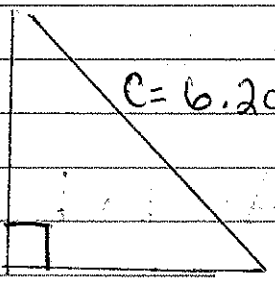
$A = \frac{b \times h}{2}$

so $A = \frac{b \times h}{2}$

$A = \frac{4 \times 3}{2}$

$A = \frac{12}{2}$

$A = 6$



$a^2 + b^2 = c^2$

$a^2 + b^2 = c^2$

$4^2 + b^2 = 6.2^2$

$16 + b^2 = 38.44$

$-16 \quad -16$

$\sqrt{b^2} = \sqrt{22.44}$

$b = 4.74\,cm$

$A = \frac{b \times h}{2}$

$A = \frac{(4.74cm)(4cm)}{2}$

$\boxed{A = 9.48\,cm^2}$

Review:

opposite function

$+ / -$

$- / +$

$a^2 / \sqrt{a}$

$\sqrt{a} / a^2$

$\times / \div$

$\div / \times$

$a^n / \sqrt[n]{a}$

$\sqrt[n]{a} / a^n$

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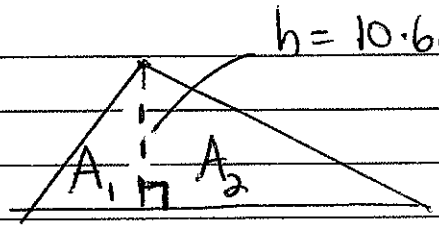

$$A_1 = \frac{b_1 \times h}{2} \qquad A_2 = \frac{b_2 \times h}{2}$$

$$A_1 = \frac{(9.1\text{cm})(10.6\text{cm})}{2} \qquad A_2 = \frac{(25.2\text{cm})(10.6\text{cm})}{2}$$

$$A_1 = 48.23\,\text{cm}^2 \qquad A_2 = 133.56\,\text{cm}^2$$

$$A_{total} = A_1 + A_2$$

$$A_{Tot.} = 48.23\text{cm}^2 + 133.56\text{cm}^2$$

$$A_{Tot.} = 181.79\,\text{cm}^2$$

Assign. Pg. 227 # 10-18 (evens)
& 2, 3, 5,