

PRINT YOUR NAME:

1. If $(x - 5) = -8$, what is $x =$?

$$x = -8 + 5 = -3$$

2. $x + y = 2$ Add Eqns. $2x = 2.5$

$$x - y = 0.5$$

Calculate: $x = 2.5/2 = 1.25$

$$y = x - 0.5 = 0.75$$

3. $2x^2 + 5x + 3 = 0$

$$ax^2 + bx + c = 0$$

Calculate $x = -1.5$
 $= -1$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-5 \pm \sqrt{25 - 24}}{4} = \frac{-5 \pm 1}{4}$$

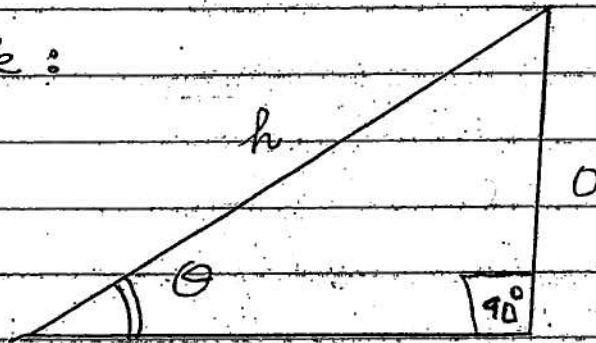
4. Consider the triangle:

(i) $\sin \theta = o/h$

(ii) $\tan \theta = a/h$

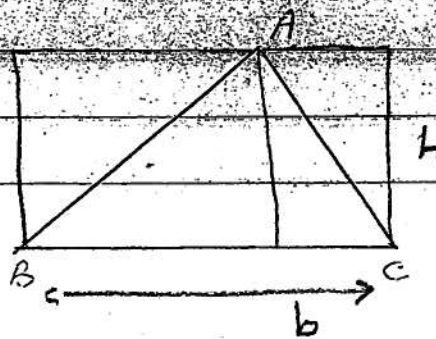
(iii) $o^2 + a^2 = h^2$

(iv) $\sin^2 \theta + \cos^2 \theta = 1$



5. AREA OF $\Delta(ABC) =$

$$= \frac{1}{2} (b \times h)$$



(OVER)

$$6. (x+y)(x-y) = x^2 - xy + yx - y^2 = x^2 - y^2$$

$$7. (x+y)^3 = (x+y)^2(x+y) = (x^2 + 2xy + y^2)(x+y) \\ = x^3 + 3x^2y + 3xy^2 + y^3$$

$$8. \frac{2}{3} - \frac{1}{6} = \frac{4}{6} - \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$