

PRINT YOUR NAME: SOLUTION

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

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

2.  $x + y = 2$

add  $x + y = 2$

$$x - y = 0.5$$

$$x - y = 0.5$$

$$\rightarrow 2x = 2.5$$

Calculate  $x = 1.25$

$$y = 1.25 - 0.5 = 0.75$$

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

Calculate  $x = \frac{-5 \pm \sqrt{25 - 24}}{4} = -1, -1.5$

4

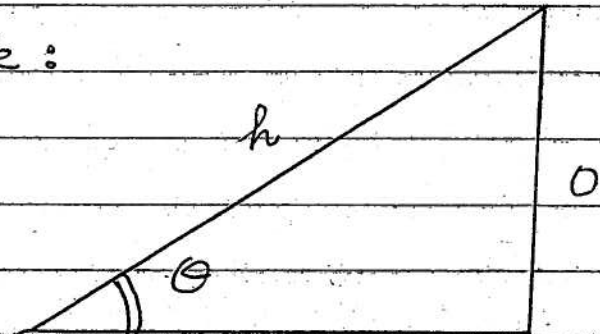
4. Consider the triangle:

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

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

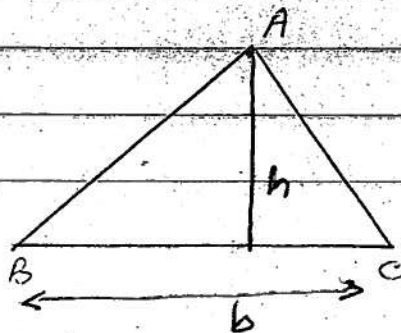
(iii)  $o^2 + a^2 = h^2$

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



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

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



(OVER)

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

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

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