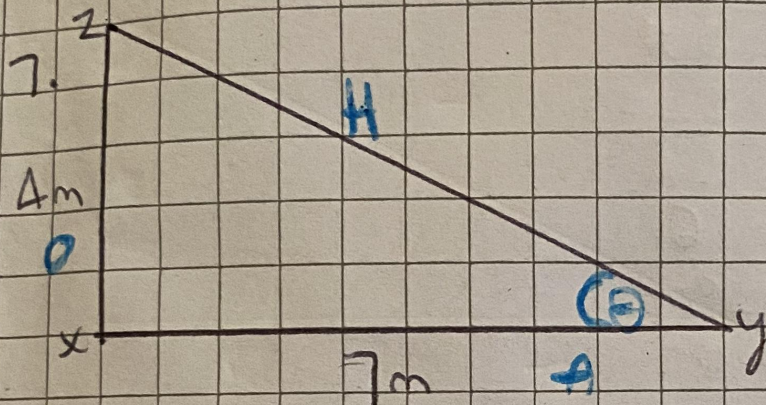


6. $5(2x^2 - y^2) - x^2(x^2 - y) - x^2y - x^4$

$$10x^2 - 5y^2 - x^4 - x^2y - x^2y - x^4$$

$$10x^2 - 5y^2 - x^4 - x^2y - x^2y - x^4$$



SOH
CAH
TOA

(i) Angle ψ

$$\tan \theta = \frac{O}{A}$$

$$\theta = \tan^{-1} \left(\frac{O}{A} \right)$$

$$\theta = \tan^{-1} \left(\frac{7}{4} \right)$$

$$= 60.26^\circ$$

(ii) Angle Z

$$Z = 180 - 90 - 60.26$$

$$= 29.74$$

(iii) ψ Z

$$C^2 = a^2 + b^2$$

$$C = \sqrt{a^2 + b^2}$$

$$= \sqrt{4^2 + 7^2}$$

$$= 8.06m$$