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Student Number = 2006744

ACHA 3000 Introduction to Math

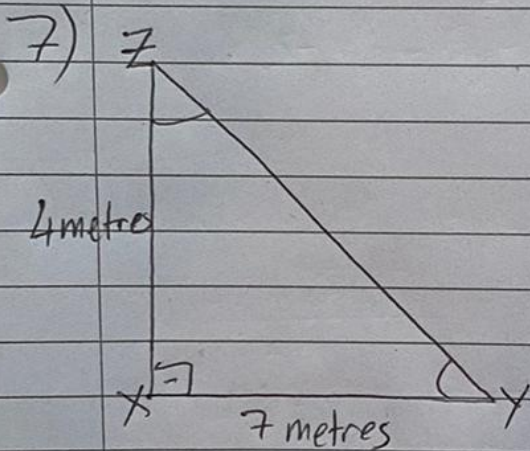
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$$6) \quad 5(2x^2 - y^2) - x^2(x^2 - y) - x^2y - x^4$$

$$10x^2 - 5y^2 - x^4 + x^3y - x^3y - x^4$$

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

$$= 2x^2(5 - x^2) - 5y^2$$

(i) Angle $y =$

$$\tan y = \frac{4}{7} \Rightarrow y = 29,74$$

$$\text{Angle } y = 29,74$$

(ii) Angle $Z =$

$$\text{Angle } Z + \text{Angle } Y = 90$$

$$\text{Angle } Z = 90 - \text{Angle } Y \Rightarrow 90 - 29,74 = 60,26 //$$

$$(iii) (YZ)^2 = (XZ)^2 + (XY)^2$$

$$(YZ)^2 = (4)^2 + (7)^2 \Rightarrow (YZ)^2 = 16 + 49$$

$$(YZ) = 65$$

$$YZ = 8,06 //$$