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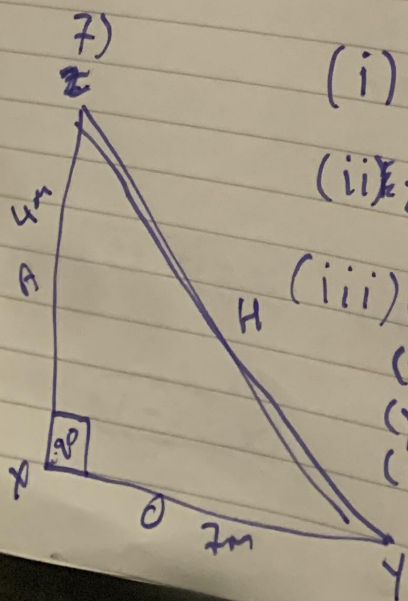
$$\begin{aligned} 5) \quad 5x + 3y &= 39 \times 2 \\ 8x - 2y &= 42 \times 3 \end{aligned}$$

$$\begin{aligned} +10x + 6y &= 378 \\ 24x + 6y &= 126 \end{aligned}$$

$$34x = 204$$

$$x = \frac{204}{34} = 6 \quad \boxed{x = 6}$$

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



$$(i) \hat{y} = \tan^{-1} \hat{y} = \left(\frac{4}{7}\right) = \boxed{29.74}$$

$$(ii) \hat{z} = \tan^{-1} \hat{z} = \left(\frac{7}{4}\right) = \boxed{60.26}$$

$$\begin{aligned} (iii) (yz)^2 &= 4^2 + 7^2 \\ (yz)^2 &= 16 + 49 \\ (yz)^2 &= 65 \\ (yz) &= \sqrt{65} \end{aligned} \quad \boxed{8.06}$$