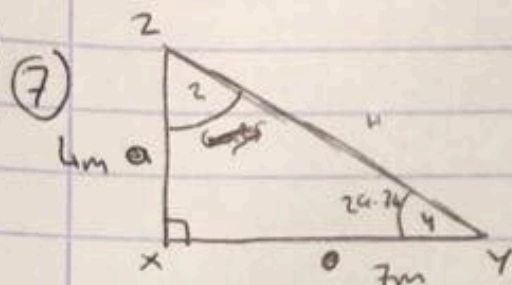


7 of 8

03/11/2020
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(i) $\tan \hat{y} = \frac{4}{7}$

~~Tan y~~

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

$\hat{y} = 29.74^\circ$

(ii) ~~$\tan \hat{z} = \frac{7}{4}$~~ $\hat{z} = 180 - 90 - 29.74$
 ~~$\hat{z} = \tan^{-1}\left(\frac{7}{4}\right)$~~ $= \underline{\underline{60.26^\circ}}$
 ~~$\hat{z} = 60.28^\circ$~~

(iii) $\overline{ZY}^2 = (\overline{ZX})^2 + (\overline{XY})^2$
 $\overline{ZY}^2 = 4^2 + 7^2$
 $= 16 + 49$
 $= 65$

$\overline{ZY} = \sqrt{65}$
 ~~$= 7.81m$~~
 $= \underline{\underline{8.06m}}$