| | | | | |
|---|---|---|---|---|
| **11** | $\sqrt{36}\left(=6\right)$ or $6 \times 6$ or $6^2$ | | 5 | M1 |
| | $\tan 25 = \dfrac{FG}{"6"}$ oe or $\tan\left(90-25\right) = \dfrac{"6"}{FG}$ oe or<br>$\cos 25 = \dfrac{"6"}{EF}$ oe or $\sin\left(90-25\right) = \dfrac{"6"}{EF}$ oe or<br>$\dfrac{FG}{\sin 25} = \dfrac{6}{\sin\left(90-25\right)}$ oe<br>*FG* or *EF* can be labelled with any letter | | | M1ft $\left[\text{their } EG\right]$ for "6"<br>If the first M mark is not awarded<br>[their *EG*] may be 9 with or without labelling<br>or<br>[their *EG*] may be any other length but must be labelled on the diagram or clearly labelled as *EG*<br>eg $\tan 25 = \dfrac{FG}{\left[\text{their } EG\right]}$ |
| | $\left(FG=\right)"6" \times \tan 25\left(=2.79\left(784...\right)\right)$ oe or<br>$\left(FG=\right)\dfrac{"6"}{\tan\left(90-25\right)}\left(=2.79\left(784...\right)\right)$ oe or<br>$\left(EF=\right)\dfrac{"6"}{\cos 25}\left(=6.6\left(2026...\right)\right)$ oe or<br>$\left(EF=\right)\dfrac{"6"}{\sin\left(90-25\right)}\left(=6.6\left(2026...\right)\right)$ oe or<br>$\left(EF=\right)\sqrt{"6"^2+"2.79..."^2}\left(=6.6\left(2026...\right)\right)$ oe or<br>$\left(FG=\right)\sqrt{"6.62..."^2-"6"^2}\left(=2.79\left(784...\right)\right)$ oe or<br>$\left(FG=\right)\dfrac{6}{\sin\left(90-25\right)} \times \sin 25\left(=2.79\left(784...\right)\right)$ oe | | | M1ft $\left[\text{their } EG\right]$ for "6"<br>eg $\left(FG=\right)\left[\text{their } EG\right] \times \tan 25$<br>Allow 2.8 or better for *FG* |
| | $0.5 \times "6" \times "2.79"$ oe or<br>$0.5 \times "6" \times "2.79" \times \sin 90$ oe or<br>$0.5 \times "6" \times "6.6" \times \sin 25$ oe or<br>$0.5 \times "6.6" \times "2.79" \times \sin\left(90-25\right)$ oe | | | M1ft $\left[\text{their } EG\right]$ for "6" |
| | *Working required* | 8.4 | | A1 dep on M2 allow in the range<br>8.3 – 8.4 |
| | | | | **Total 5 marks** |