

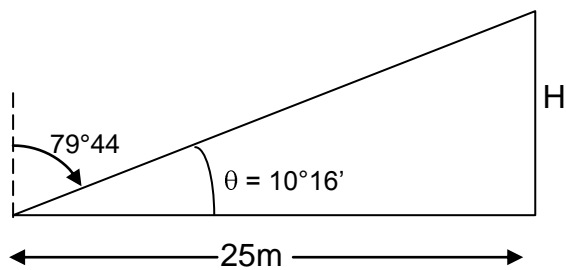
MATHEMATICS ANSWERS

Level One

Subdividing Land

1. Lot 1	=	55 x 25	=	1375m ²
Lot 2	=	55 x 25	=	1375m ²
Lot 3	=	55 x 25 + 5 x 50	=	1625m ²
Lot 4	=	55 x 25 + 5 x 50	=	1625m ²
Total			=	6000m ²

2.



$$\theta = 90^\circ - 79^\circ 44' = 10^\circ 16'$$

$$\frac{H}{25} = \tan 10^\circ 16'$$

$$H = 25 \tan 10^\circ 16'$$

$$H = 4.528\text{m}$$

$$\Rightarrow \text{Height of the house} = 4.528 + 1.55$$

$$= 6.0780$$

No, the house is too high by 78mm