**MATHEMATICS ASSIGNMENT**

1. When an airplane is 800M above the ground, its angle is elevation from a point P on the ground is 30˚. How far is the plane from P by sight?



P

?

Let the distance by sight be A

=

=

/OPP/=800M

/HYP/=A

Sin30º=

Asin30º=800

Sin30º=0.5

0.5A=800

A=

A=1600M

800M

2.The angle of elevation of from y is 30˚. If =40M, how high is above the level of y?

40M

?

Let the height be H

=

=

/OPP/=H

/HYP/=40

Sin30º=

40sin30º=H

Sin30º=0.5

40\*0.5=H

20M=H

H=20M