Problem:

How can you use trig to calculate the height of the gym?

Material:

Straw, protractor, yarn, weight.

Tan = height from eye level/Distance from wall

H

Dist. From wall

Hyp:

Reason:

IV:

DV:

Procedure:

Data:

|  |  |  |  |
| --- | --- | --- | --- |
|  | D (m) | Ht. from viewer’s eye to floor | Angle of point of view |
| Wall | 6.5 | 2.34 | 47.5 |

Calculations:

Conclusion : normal

\*\*Calculate height of wall and % error.

Actual height of wall 9.45 m