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# Oblique Prism Formulas

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## List of 10 Oblique Prism Formulas

### Oblique Prism ↗

#### Angle of Slope of Oblique Prism ↗

##### 1) Angle of Slope of Oblique Prism ↗

**fx**  $\angle_{\text{Slope}} = a \sin\left(\frac{h}{l_e(\text{Lateral})}\right)$

**Open Calculator ↗**

**ex**  $30^\circ = a \sin\left(\frac{5m}{10m}\right)$

##### 2) Angle of Slope of Oblique Prism given Volume ↗

**fx**  $\angle_{\text{Slope}} = a \sin\left(\frac{\frac{V}{A_{\text{Base}}}}{l_e(\text{Lateral})}\right)$

**Open Calculator ↗**

**ex**  $30^\circ = a \sin\left(\frac{\frac{100m^3}{20m^2}}{10m}\right)$



## Base Area of Oblique Prism ↗

### 3) Base Area of Oblique Prism given Lateral Edge Length ↗

**fx**  $A_{\text{Base}} = \frac{V}{l_e(\text{Lateral}) \cdot \sin(\angle_{\text{Slope}})}$

[Open Calculator ↗](#)

**ex**  $20m^2 = \frac{100m^3}{10m \cdot \sin(30^\circ)}$

### 4) Base Area of Oblique Prism given Volume ↗

**fx**  $A_{\text{Base}} = \frac{V}{h}$

[Open Calculator ↗](#)

**ex**  $20m^2 = \frac{100m^3}{5m}$

## Height of Oblique Prism ↗

### 5) Height of Oblique Prism given Lateral Edge Length ↗

**fx**  $h = l_e(\text{Lateral}) \cdot \sin(\angle_{\text{Slope}})$

[Open Calculator ↗](#)

**ex**  $5m = 10m \cdot \sin(30^\circ)$



**6) Height of Oblique Prism given Volume** ↗

$$fx \quad h = \frac{V}{A_{\text{Base}}}$$

**Open Calculator** ↗

$$ex \quad 5m = \frac{100m^3}{20m^2}$$

**Lateral Edge Length of Oblique Prism** ↗**7) Lateral Edge Length of Oblique Prism** ↗

$$fx \quad l_e(\text{Lateral}) = \frac{h}{\sin(\angle_{\text{Slope}})}$$

**Open Calculator** ↗

$$ex \quad 10m = \frac{5m}{\sin(30^\circ)}$$

**8) Lateral Edge Length of Oblique Prism given Volume** ↗

$$fx \quad l_e(\text{Lateral}) = \frac{\frac{V}{A_{\text{Base}}}}{\sin(\angle_{\text{Slope}})}$$

**Open Calculator** ↗

$$ex \quad 10m = \frac{\frac{100m^3}{20m^2}}{\sin(30^\circ)}$$



## Volume of Oblique Prism ↗

### 9) Volume of Oblique Prism ↗

fx  $V = A_{\text{Base}} \cdot h$

[Open Calculator ↗](#)

ex  $100\text{m}^3 = 20\text{m}^2 \cdot 5\text{m}$

### 10) Volume of Oblique Prism given Lateral Edge Length ↗

fx  $V = A_{\text{Base}} \cdot l_{e(\text{Lateral})} \cdot \sin(\angle_{\text{Slope}})$

[Open Calculator ↗](#)

ex  $100\text{m}^3 = 20\text{m}^2 \cdot 10\text{m} \cdot \sin(30^\circ)$



## Variables Used

- $\angle \text{Slope}$  Angle of Slope of Oblique Prism (*Degree*)
- $A_{\text{Base}}$  Base Area of Oblique Prism (*Square Meter*)
- $h$  Height of Oblique Prism (*Meter*)
- $l_{e(\text{Lateral})}$  Lateral Edge Length of Oblique Prism (*Meter*)
- $V$  Volume of Oblique Prism (*Cubic Meter*)



# Constants, Functions, Measurements used

- **Function:** **asin**, asin(Number)  
*Inverse trigonometric sine function*
- **Function:** **sin**, sin(Angle)  
*Trigonometric sine function*
- **Measurement:** **Length** in Meter (m)  
*Length Unit Conversion* ↗
- **Measurement:** **Volume** in Cubic Meter ( $m^3$ )  
*Volume Unit Conversion* ↗
- **Measurement:** **Area** in Square Meter ( $m^2$ )  
*Area Unit Conversion* ↗
- **Measurement:** **Angle** in Degree ( $^\circ$ )  
*Angle Unit Conversion* ↗



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