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# Bulge Formulas

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# List of 20 Bulge Formulas

## Bulge

### Area of Bulge

#### 1) Area of Bulge

$$\text{fx } A = 4 \cdot r^2$$

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2\_img.jpg\)](#)

$$\text{ex } 100\text{m}^2 = 4 \cdot (5\text{m})^2$$

#### 2) Area of Bulge given Height

$$\text{fx } A = h^2$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa\_img.jpg\)](#)

$$\text{ex } 100\text{m}^2 = (10\text{m})^2$$

#### 3) Area of Bulge given Perimeter

$$\text{fx } A = \left( \frac{P}{\pi + 2} \right)^2$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d\_img.jpg\)](#)

$$\text{ex } 94.5681\text{m}^2 = \left( \frac{50\text{m}}{\pi + 2} \right)^2$$



#### 4) Area of Bulge given Width

$$\text{fx } A = \frac{w^2}{4}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235\_img.jpg\)](#)

$$\text{ex } 100\text{m}^2 = \frac{(20\text{m})^2}{4}$$

#### Height of Bulge

#### 5) Height of Bulge

$$\text{fx } h = 2 \cdot r$$

[Open Calculator !\[\]\(5361750c22c4e047a52f4eac1ec2d4cc\_img.jpg\)](#)

$$\text{ex } 10\text{m} = 2 \cdot 5\text{m}$$

#### 6) Height of Bulge given Area

$$\text{fx } h = \sqrt{A}$$

[Open Calculator !\[\]\(b792654f2cef9719eabeb6c5be00811e\_img.jpg\)](#)

$$\text{ex } 10\text{m} = \sqrt{100\text{m}^2}$$

#### 7) Height of Bulge given Perimeter

$$\text{fx } h = \frac{P}{\pi + 2}$$

[Open Calculator !\[\]\(84f47badaad7772cd95667a7c387a639\_img.jpg\)](#)

$$\text{ex } 9.724613\text{m} = \frac{50\text{m}}{\pi + 2}$$




8) Height of Bulge given Width 

$$fx \quad h = \frac{w}{2}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95\_img.jpg\)](#)

$$ex \quad 10m = \frac{20m}{2}$$

Perimeter of Bulge 9) Perimeter of Bulge 

$$fx \quad P = 2 \cdot (\pi + 2) \cdot r$$

[Open Calculator !\[\]\(aa53ad6fea213b8b2226d3077e30533a\_img.jpg\)](#)

$$ex \quad 51.41593m = 2 \cdot (\pi + 2) \cdot 5m$$

10) Perimeter of Bulge given Area 

$$fx \quad P = (\pi + 2) \cdot \sqrt{A}$$

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a\_img.jpg\)](#)

$$ex \quad 51.41593m = (\pi + 2) \cdot \sqrt{100m^2}$$

11) Perimeter of Bulge given Height 

$$fx \quad P = (\pi + 2) \cdot h$$

[Open Calculator !\[\]\(c1168d6a8b365d11e842ece304635fa7\_img.jpg\)](#)

$$ex \quad 51.41593m = (\pi + 2) \cdot 10m$$



## 12) Perimeter of Bulge given Width

$$\text{fx } P = (\pi + 2) \cdot \frac{W}{2}$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a\_img.jpg\)](#)

$$\text{ex } 51.41593\text{m} = (\pi + 2) \cdot \frac{20\text{m}}{2}$$

## Radius of Bulge

### 13) Radius of Bulge

$$\text{fx } r = \sqrt{\frac{A}{4}}$$

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762\_img.jpg\)](#)

$$\text{ex } 5\text{m} = \sqrt{\frac{100\text{m}^2}{4}}$$

### 14) Radius of Bulge given Height

$$\text{fx } r = \frac{h}{2}$$

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3\_img.jpg\)](#)

$$\text{ex } 5\text{m} = \frac{10\text{m}}{2}$$



15) Radius of Bulge given Perimeter 

$$\text{fx } r = \frac{P}{2 \cdot (\pi + 2)}$$

Open Calculator 


$$\text{ex } 4.862307\text{m} = \frac{50\text{m}}{2 \cdot (\pi + 2)}$$

16) Radius of Bulge given Width 

$$\text{fx } r = \frac{w}{4}$$

Open Calculator 


$$\text{ex } 5\text{m} = \frac{20\text{m}}{4}$$

Width of Bulge 17) Width of Bulge 

$$\text{fx } w = 4 \cdot r$$

Open Calculator 

$$\text{ex } 20\text{m} = 4 \cdot 5\text{m}$$

18) Width of Bulge given Area 

$$\text{fx } w = \sqrt{A \cdot 4}$$

Open Calculator 

$$\text{ex } 20\text{m} = \sqrt{100\text{m}^2 \cdot 4}$$



## 19) Width of Bulge given Height

$$fx \quad w = 2 \cdot h$$

[Open Calculator !\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5\_img.jpg\)](#)

$$ex \quad 20m = 2 \cdot 10m$$

## 20) Width of Bulge given Perimeter

$$fx \quad w = 2 \cdot \frac{P}{\pi + 2}$$

[Open Calculator !\[\]\(2b376d1a92330ab09dad2665d2f89bf5\_img.jpg\)](#)

$$ex \quad 19.44923m = 2 \cdot \frac{50m}{\pi + 2}$$





## Variables Used

- **A** Area of Bulge (*Square Meter*)
- **h** Height of Bulge (*Meter*)
- **P** Perimeter of Bulge (*Meter*)
- **r** Radius of Bulge (*Meter*)
- **w** Width of Bulge (*Meter*)





# Constants, Functions, Measurements used



- **Constant:** **pi**, 3.14159265358979323846264338327950288  
*Archimedes' constant*
- **Function:** **sqrt**, sqrt(Number)  
*Square root function*
- **Measurement:** **Length** in Meter (m)  
*Length Unit Conversion* 
- **Measurement:** **Area** in Square Meter (m<sup>2</sup>)  
*Area Unit Conversion* 



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