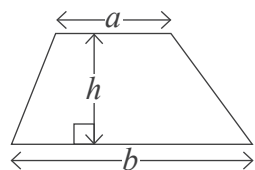


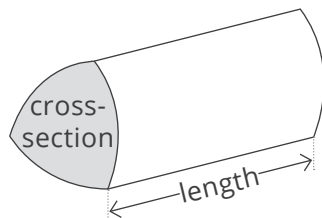
Foundation 2023 Exams Formulae

Area of a Trapezium



$$A = \frac{1}{2}(a + b)h$$

Volume of a Prism



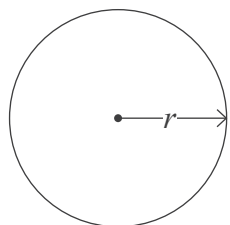
$$\text{Volume} = \text{area of cross section} \times \text{length}$$

Circumference of a Circle

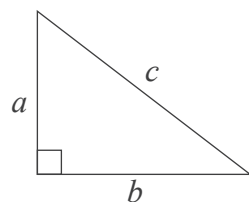
$$C = 2\pi r = \pi d$$

Area of a Circle

$$A = \pi r^2$$



Pythagoras' Theorem



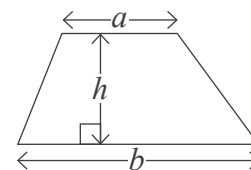
$$a^2 + b^2 = c^2$$

Trigonometry Formulae

$$\sin \theta = \frac{o}{h} \quad \cos \theta = \frac{a}{h} \quad \tan \theta = \frac{o}{a}$$

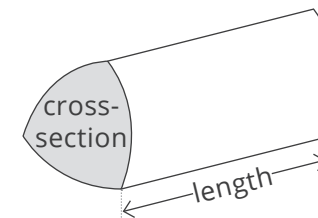
Foundation 2023 Exams Formulae

Area of a Trapezium



$$A = \frac{1}{2}(a + b)h$$

Volume of a Prism



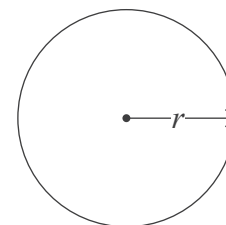
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Circumference of a Circle

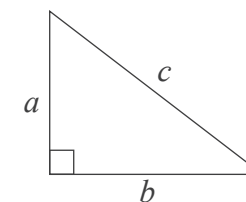
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Trigonometry Formulae

$$\sin \theta = \frac{o}{h} \quad \cos \theta = \frac{a}{h} \quad \tan \theta = \frac{o}{a}$$

Compound Interest

$$\text{Total} = P\left(1 + \frac{r}{100}\right)^n$$

Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

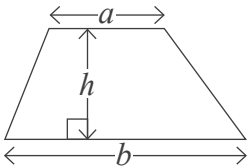
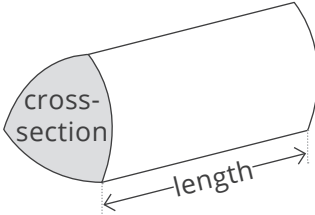
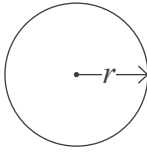
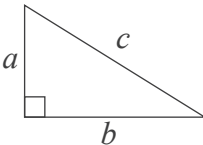
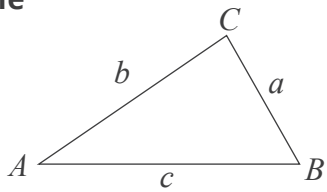
Compound Interest

$$\text{Total} = P\left(1 + \frac{r}{100}\right)^n$$

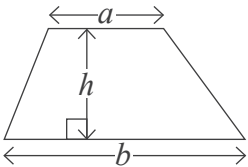
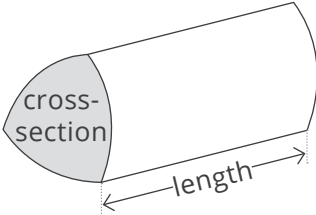
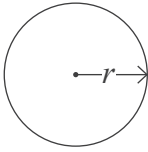
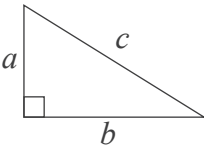
Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

Higher 2023 Exams Formulae

<p>Area of a Trapezium</p>  $A = \frac{1}{2}(a + b)h$	<p>Volume of a Prism</p>  <p>Volume = area of cross section \times length</p>
<p>Circumference of a Circle</p> $C = 2\pi r = \pi d$ <p>Area of a Circle</p> $A = \pi r^2$ 	<p>Pythagoras' Theorem</p>  $a^2 + b^2 = c^2$ <p>Trigonometry Formulae</p> $\sin\theta = \frac{o}{h} \quad \cos\theta = \frac{a}{h} \quad \tan\theta = \frac{o}{a}$
<p>Compound Interest</p> $\text{Total} = P\left(1 + \frac{r}{100}\right)^n$	<p>Probability</p> $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
<p>Quadratic Formula</p> $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	<p>P(A and B)</p> $P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$ $= P(A B) \times P(B)$
<p>Sine Rule</p> $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ <p>Cosine Rule</p> $a^2 = b^2 + c^2 - 2bccosA$	<p>Area of Triangle</p> $\text{Area} = \frac{1}{2}absinC$ 

Higher 2023 Exams Formulae

<p>Area of a Trapezium</p>  $A = \frac{1}{2}(a + b)h$	<p>Volume of a Prism</p>  <p>Volume = area of cross section \times length</p>
<p>Circumference of a Circle</p> $C = 2\pi r = \pi d$ <p>Area of a Circle</p> $A = \pi r^2$ 	<p>Pythagoras' Theorem</p>  $a^2 + b^2 = c^2$ <p>Trigonometry Formulae</p> $\sin\theta = \frac{o}{h} \quad \cos\theta = \frac{a}{h} \quad \tan\theta = \frac{o}{a}$
<p>Compound Interest</p> $\text{Total} = P\left(1 + \frac{r}{100}\right)^n$	<p>Probability</p> $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
<p>Quadratic Formula</p> $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	<p>P(A and B)</p> $P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$ $= P(A B) \times P(B)$
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