

Mathematics

Unit 1: Geometry

Lesson 1: Area and Perimeter

Area

The area of a rectangle is calculated by multiplying its length by its width.

$$\text{Area} = \text{Length} \times \text{Width}$$

Perimeter

The perimeter of a rectangle is calculated by adding all four sides together.

$$\text{Perimeter} = 2 \times (\text{Length} + \text{Width})$$

Example 1: A rectangle has a length of 5 units and a width of 3 units. Calculate its area and perimeter.

Solution:

Area: $5 \times 3 = 15$ square units

Perimeter: $2 \times (5 + 3) = 16$ units

Example 2: A square has a side length of 4 units. Calculate its area and perimeter.

Solution:

Area: $4 \times 4 = 16$ square units

Perimeter: $4 \times 4 = 16$ units

Homework:

1. A rectangle has a length of 6 units and a width of 2 units. Calculate its area and perimeter.

2. A square has a side length of 3 units. Calculate its area and perimeter.

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Unit 2: Algebra

Lesson 1: Linear Equations

Linear Equations

A linear equation is an equation in which the highest power of the variable is 1.

Example 1: Solve the linear equation $2x + 3 = 7$.

Solution:

$$2x + 3 = 7$$

$$2x = 7 - 3$$

$$2x = 4$$

$$x = \frac{4}{2}$$

$$x = 2$$

Example 2: Solve the linear equation $5y - 2 = 8$.

Solution:

$$5y - 2 = 8$$

$$5y = 8 + 2$$

$$5y = 10$$

$$y = \frac{10}{5}$$

$$y = 2$$

Homework:

1. Solve the linear equation $3x + 1 = 4$.

2. Solve the linear equation $7z - 5 = 12$.

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Unit 3: Calculus

Lesson 1: Differentiation

Differentiation

Differentiation is the process of finding the derivative of a function.

Example 1: Find the derivative of $y = x^2 + 3x - 5$.

Solution:

$$\frac{dy}{dx} = 2x + 3$$

Example 2: Find the derivative of $y = \sin(x)$.

Solution:

$$\frac{dy}{dx} = \cos(x)$$

Homework:

1. Find the derivative of $y = x^3 + 2x^2 - 7x + 4$.

2. Find the derivative of $y = \cos(x)$.

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Unit 4: Trigonometry

Lesson 1: Sine and Cosine

Sine and Cosine

The sine and cosine functions are used to find the lengths of sides and angles in a right-angled triangle.

Example 1: In a right-angled triangle, the angle is 30° and the hypotenuse is 10 units. Find the length of the side opposite the angle.

Solution:

$$\sin(30^\circ) = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin(30^\circ) = \frac{x}{10}$$

$$x = 10 \sin(30^\circ)$$

$$x = 10 \times 0.5$$

$$x = 5$$

Example 2: In a right-angled triangle, the angle is 45° and the adjacent side is 8 units. Find the length of the hypotenuse.

Solution:

$$\cos(45^\circ) = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos(45^\circ) = \frac{8}{x}$$

$$x = \frac{8}{\cos(45^\circ)}$$

$$x = \frac{8}{0.707}$$

$$x \approx 11.3$$

Homework:

1. In a right-angled triangle, the angle is 60° and the hypotenuse is 12 units. Find the length of the side adjacent to the angle.

2. In a right-angled triangle, the angle is 30° and the opposite side is 5 units. Find the length of the hypotenuse.

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