
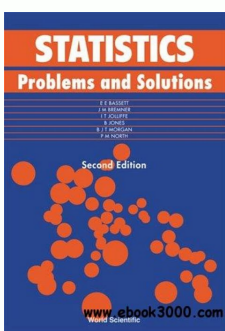


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Calculus notes

Sets of numbers

- A set is a collection of distinct objects. The objects in a set are called elements or members of the set.

- The set N of natural numbers is given by

$$N = \{0, 1, 2, 3, 4, \dots\}$$

- The set Z of integers is given by

$$Z = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$$

- The set Q of rational numbers consist of numbers of the form p/q where p, q are integers and $q \neq 0$

Proof of square roots equal to 2 have no rational number

Assume that $x^2 = 2$ and that $x = p/q$ where q is non-zero and p, q are interferences with no factors in common than 1, -1.

$$(p/q)^2 = 2$$

$$p^2 = 2q^2 \quad (1)$$

The RHS has a factor of 2 and therefore so does the left hand side. This implies that p has a factor of 2 so that

$$p = 2p'$$

For some integer p' . Substituting back into (1) yields

$$(2p')^2 = 2q^2$$

$$2(p')^2 = q^2$$

Similarly, q has a factor of 2. But p and q must have a factor of 2 in common. This contradicts the fact that p, q were assumed to have no factors in common other than 1, -1. Our conclusion is that no rational number has square equal to 2.

If x is a member of a set A , then we write $x \in A$

If x is not a member of A then we write $x \notin A$

Notation for intervals.

If a and b are real numbers and that $a < b$.

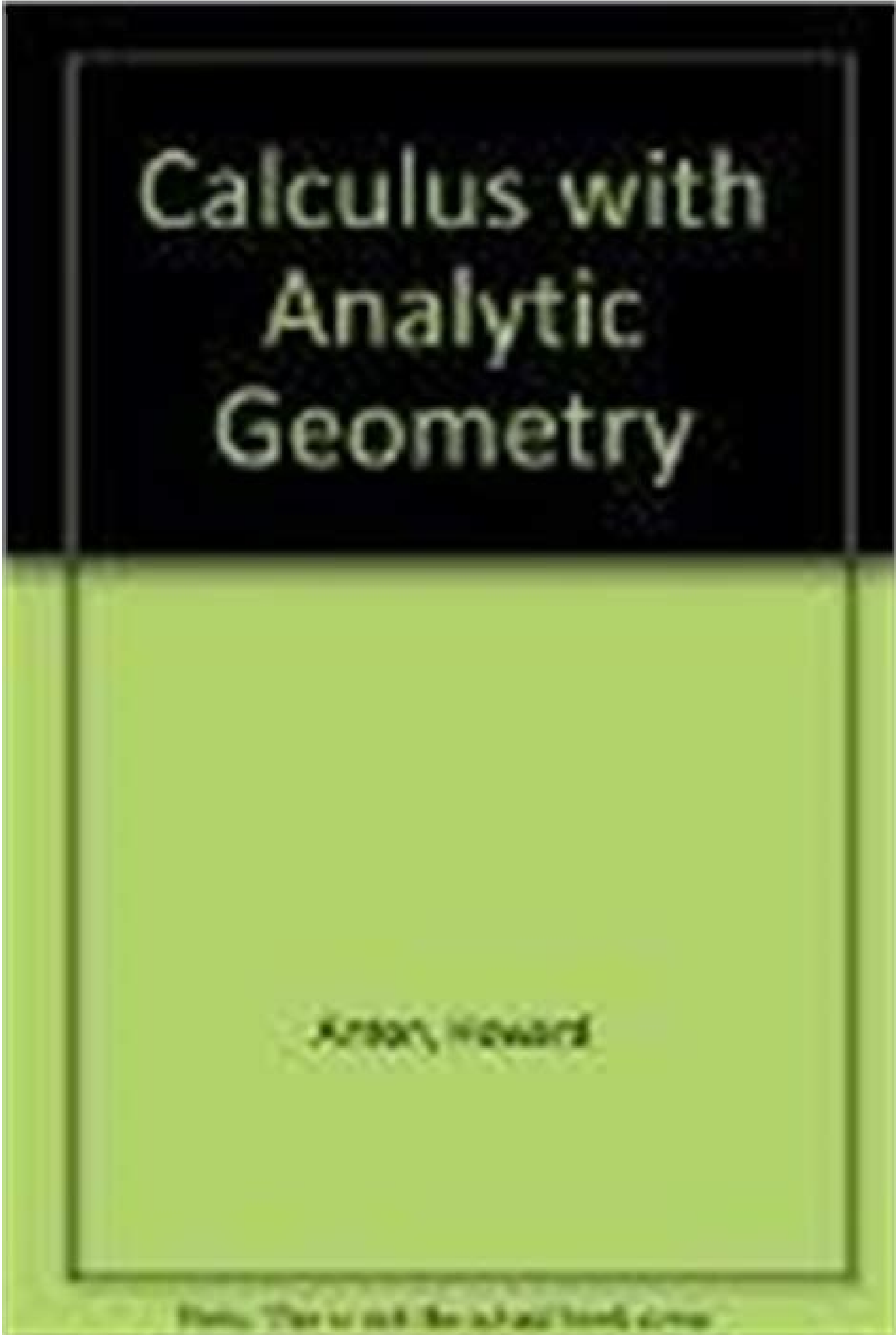
$(a, b) = \{x \in \mathbb{R} : a < x < b\}$ 

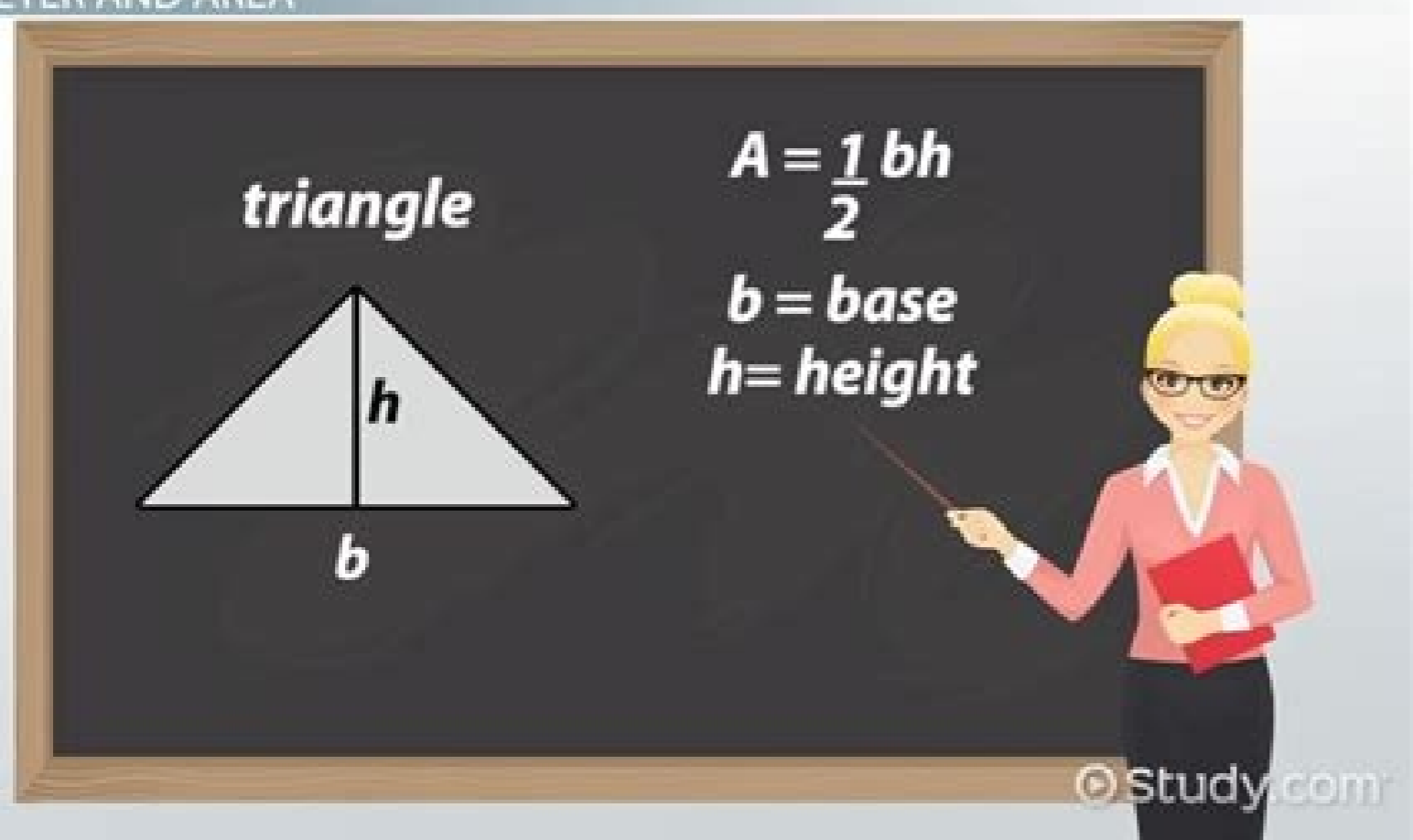
$[a, b) = \{x \in \mathbb{R} : a \leq x < b\}$ 

$(a, b] = \{x \in \mathbb{R} : a < x \leq b\}$ 

$[a, b] = \{x \in \mathbb{R} : a \leq x \leq b\}$ 

An interval $[a, b]$ that includes its endpoints a and b is called a closed interval. An interval (a, b) that excludes its endpoints a and b is called an open interval. The intervals $[a, b)$ and $(a, b]$ are neither opened nor closed.





Slope formula	$\text{slope, } m = \frac{\text{change in } y = \text{rise}}{\text{change in } x = \text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$ <p>Parallel lines have equal slopes. The slopes of perpendicular lines are opposite reciprocals of each other</p>
General Form	$Ax + By = C$
Slope Intercept Form	$y = mx + b$ where m is the slope and b is the y-intercept
Point Slope Form	$(y - y_1) = m(x - x_1)$ where m is the slope
Midpoint Formula	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Distance Formula	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

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He completed his PhD from the University of St. Andrews, UK under the supervision of Professor Edmund Robertson.

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