



Master math unit with sensors, software and interface.

EQ129H

### Function

Intended for the study of plane geometry, degree, radian, quadrants and their conversions, trigonometric cycle, angle measurement units, sine, cosine and tangent in the trigonometric circle, relations between angles formed by parallel lines cut by a transverse line, angular properties of triangles, trigonometric fundamentals, trigonometric ratios and relations, metric relations in a right triangle and any triangle, Pythagorean theorem, spatial geometry, areas and perimeters of geometric solids regular hexahedron, straight and oblique prisms, straight quadrangular prism, straight regular and non-regular pyramids, straight circular cylinder, equilateral cylinder, sphere inscribed in a cylinder, base apothem, pyramid apothem, pyramid height, cylinder axis, cylinder meridian section, sphere meridian section, external and internal volumes and walls of hollow geometric solids, 3D revolution solids, 3D revolution surfaces, the revolution cone intercepted by a 3D plane, the conic sections, the hypotenuse of the triangle in revolution as a conical surface, ratios, proportions and similar triangles, square special product of the sum of two terms, square special product of the difference of two terms, open and closed polygonal lines, polygons, perimeters and areas of plane figures, inscribed polygons, apothem and areas of the circle, circle, circumferences and perimeters, ration between the perimeter of a circumference and its diameter, the number  $p$  and the related function, exponential function, inverse function of the exponential function, natural logarithm, quadratic, sinusoidal and exponential functions.

### Knowledge areas

Mathematics - Metrology

## Level

Graduation - Technical education - High school

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