

ZMATH 2012d.00383

Forster, Colin

Trigonometry without right angles.

Math. Spectr. 44, No. 3, 98-101 (2012).

Summary: This article describes how trigonometric functions can be defined for non-right-angled triangles. In particular, the ratios esin , ecos , and etan , corresponding to the sine, cosine, and tangent ratios, are defined for triangles containing a $\pi/3$ angle. Some of the implications are discussed, including the graphs of these functions and the small-angle approximations.

Classification: G60

Keywords: trigonometry; trigonometric functions; non-right-angled triangles