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discarded. The second calculation is then $(0 \times 4000 = 0)$ so the end result is 0. The end result depends on the order in which the calculations are done. Many astronomical formulas involve angles.

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Astronomical Formulae For Calculators by Jean Meeus For astronomical calculations, these units are awkward -- it's much easier to work with "decimal" (ordinary floating point) values. Convert, if...

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Calculate the angular size of an object based on its apparent size and distance between measure and observer, where θ is the angular size in radians, S_{app} is the apparent size in mm and l is the distance between the measure and the observer.

List of Astronomy Math Equations with Workings

A formula for calculating the size of the Airy disk produced by a telescope is: $D = 2.44 \cdot \lambda / \theta$ and. or. where: D = Diameter of Airy disk in mm λ = Wavelength of light

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(in mm here, normally in nm) $FR = \text{Focal Ratio of system}$ $A = \text{Angular diameter of Airy disk in arcsec}$

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Astronomical formulae for calculators The first scientific calculator that included all of the basic ideas above was the programmable Hewlett-

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Packard HP-9100A, released in 1968, though the Wang LOCI-2 and the Mathatronics Mathatron had some features later identified with scientific calculator designs.

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