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generally an area form for a surface is a gadget that when fed an ordered pair of tangent vectors to a surface returns the oriented area of the parallelogram spanned by those vectors if u, v denotes cartesian coordinates for example the area form in the euclidean plane is $du dv$ or $du \wedge dv$ depending on your notation square area a^2 a length of side rectangle area $w \times h$ w width h height parallelogram area $b \times h$ b base h vertical height trapezoid $\frac{1}{2}(a+b)h$ a, b horizontal sides h vertical height circle area πr^2 r radius ellipse area πab sector area $\frac{1}{2}r^2\theta$ r radius θ angle in radians apr 27 2015 area form a differential form ask question asked 8 years 11 months ago modified 8 years 11 months ago viewed 935 times 5 i just read that $\omega_x \wedge \zeta_x \wedge \eta_x \wedge \zeta_x \wedge \eta_x \wedge \zeta_x$ is the area form on the sphere where $x \in S^2$ x area formula the area of a two dimensional shape or geometric figure is the 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