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the fundamental concept underlying the geometry of curves is the arclength of a parametrized curve definition if $\alpha: [a, b] \rightarrow \mathbb{R}^3$ is a parametrized curve then for any $t \in [a, b]$ we define its arclength $s(t) = \int_a^t |\alpha'(u)| du$ differential geometry spring tr 9 30 10 45 this is an undergraduate introduction to curves and surfaces in \mathbb{R}^3 with prerequisites of either math 2270 2500 and math 3000 or math 3510 h the course is a study of curvature and its implications differential geometry a first course in curves and surfaces preliminary version spring 2013 theodore shifrin university of georgia dedicated to the memory of shiing shen chern my adviser and friend c 2013 theodore shifrin no portion of this work may be reproduced in any form without written permission of the author differential geometry a first course in curves and surfaces contents curves surfaces local theory surfaces further topics review of linear algebra and calculus solutions 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