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page 3 an equation defining the surface,  
which can be written in Cartesian

coordinates as  $n_1^2 (z+z_1)^2 + y^2 + n_2^2 (z-z_2)^2 + y^2 = n_1^2 z_1^2 + n_2^2 z_2^2$ . (1) Given  $z$

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1 and  $z^2$ , (1) relates  $y$  to  $z$  and thus defines the surface. EXERCISE 1.2-4 Proof of the Thin Lens Formulas A ray at angle

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