

- 3.** [10 points] The Great Pyramid of Giza in Egypt was originally (approximately) 480 ft high. Its base was originally (again, approximately) a square with side lengths 760 ft.
- (a)** [6 points of 10] Sketch a slice that could be used to calculate the volume of the pyramid by integrating. In your sketch, indicate all variables you are using. Find an expression for the volume of the slice in terms of those variables.

- (b)** [4 points of 10] Use your slice from (a) to find the volume of the pyramid.