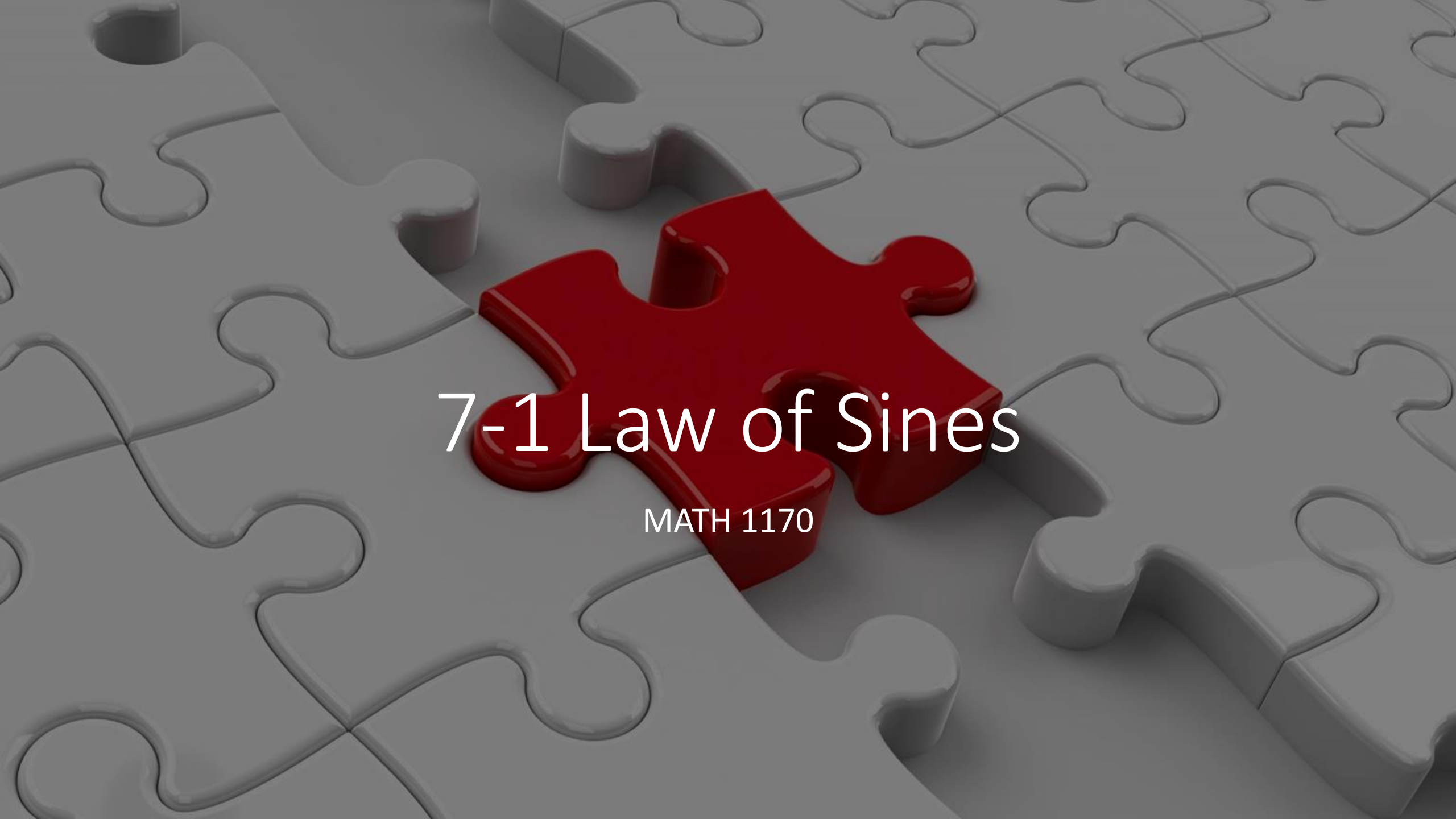


A 3D rendering of a red puzzle piece standing upright on a surface of grey puzzle pieces. The red piece is the central focus, with its unique shape and color contrasting sharply with the surrounding grey pieces. The lighting creates soft shadows, giving the pieces a three-dimensional appearance.

7-1 Law of Sines

MATH 1170

Law of Sines

Solve the triangle: $\beta = 25^\circ$, $\gamma = 41^\circ$, $b = 170$

Solve the triangle: $\alpha = 27^\circ$, $c = 75$, $a = 34$

Solve the triangle: $\alpha = 42.17^\circ$, $a = 5.01$, $b = 6.12$

Application

The horizontal makes an angle of 15° with an inclined street. The sun has an angle of elevation of 57° . The vertical pole by the roadside casts a 75 foot shadow. Estimate the length of the pole.

