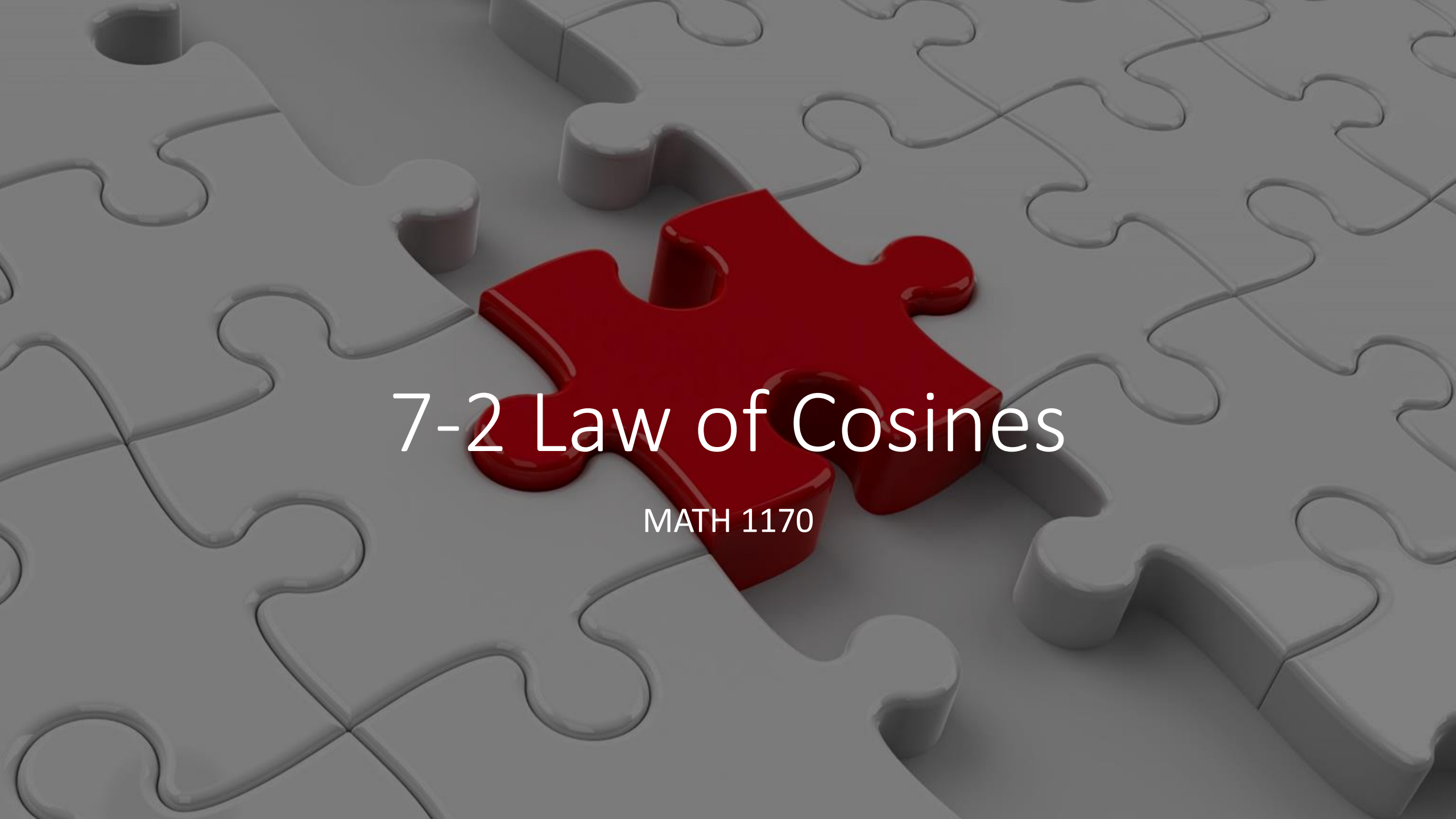


A 3D rendering of a red puzzle piece standing out from a grey puzzle background. The red piece is in the center, slightly raised, and has the text '7-2 Law of Cosines' and 'MATH 1170' overlaid on it. The background consists of many grey puzzle pieces, some of which are also slightly raised.

7-2 Law of Cosines

MATH 1170

Law of Cosines

Solve the triangle: $\gamma = 45^\circ$, $b = 10.0$, $a = 15.0$

Solve the triangle *CONTINUED*:

$$\gamma = 45^\circ, b = 10.0, a = 15.0$$

Solve the triangle *CONTINUED*:

$$\gamma = 45^\circ, b = 10.0, a = 15.0$$

Flight Distance

An airplane flies 165 miles from point A in the direction 130° and then travels in the direction 245° for 80 miles. Estimate how far the plane is from point A .

Flight Distance – *Space to Work*