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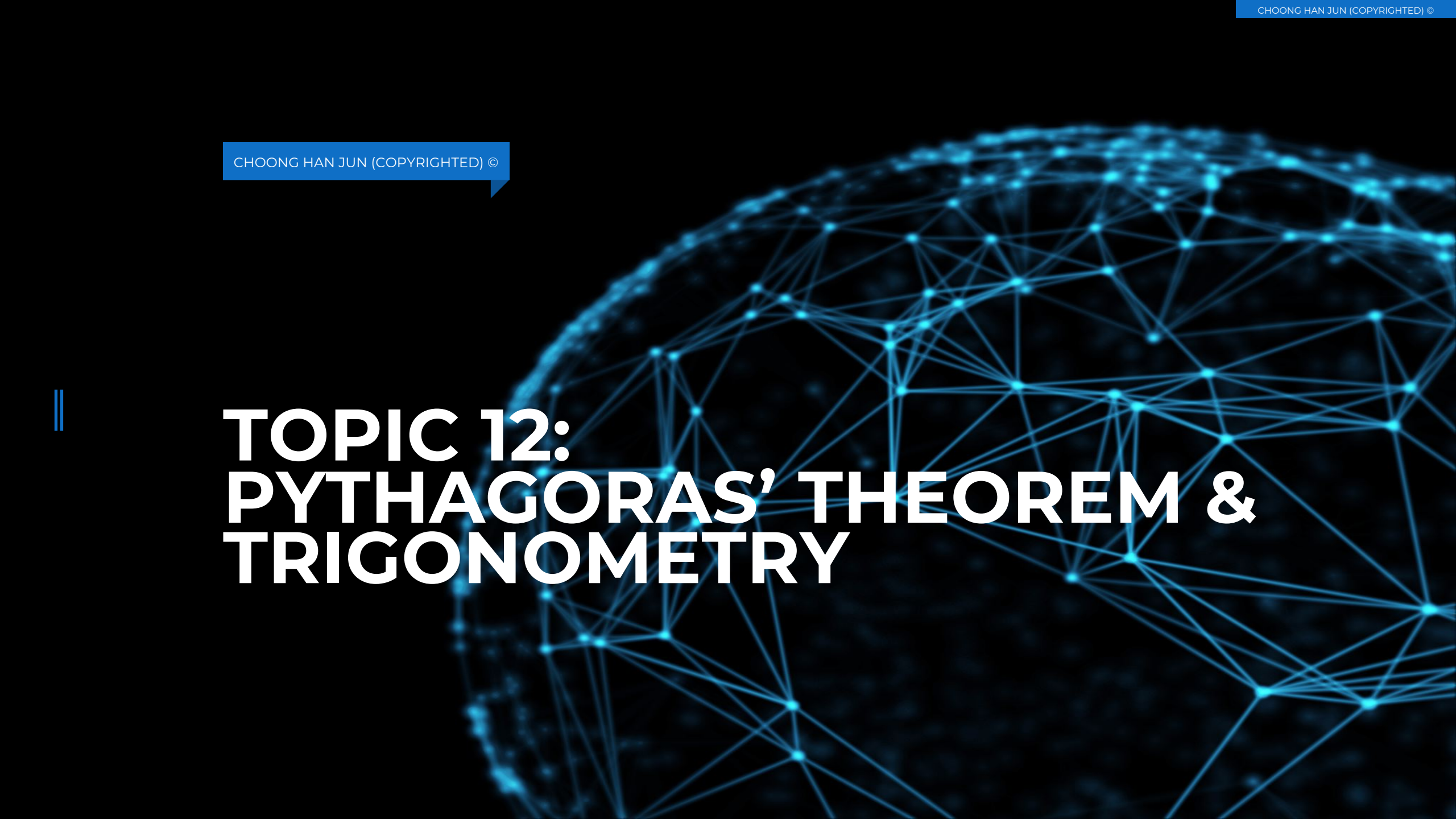
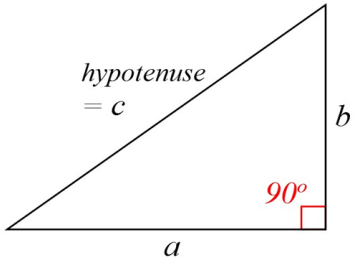


TOPIC 12: PYTHAGORAS' THEOREM & TRIGONOMETRY

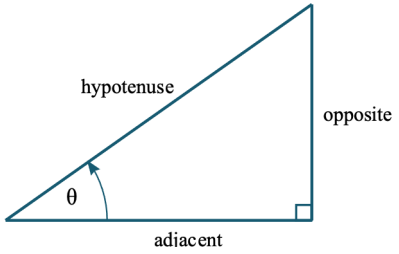
PYTHAGORAS' THEOREM



$$\boldsymbol{c^2 = a^2 + b^2}$$

Conversely, if a triangle with sides *a, b, c* satisfy the Pythagoras' theorem (ie. $c^2 = a^2 + b^2$), then the triangle is right-angled & angle opposite/facing side *c* is the right angle.

TRIGONOMETRIC RATIOS



$$tan\theta = \frac{opposite}{adjacent}\ (\boldsymbol{TOA})$$

$$cos\theta = \frac{adjacent}{hypotenuse}\ (\boldsymbol{CAH})$$

$$sin\theta = \frac{opposite}{hypotenuse}\ (\boldsymbol{SOH})$$

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