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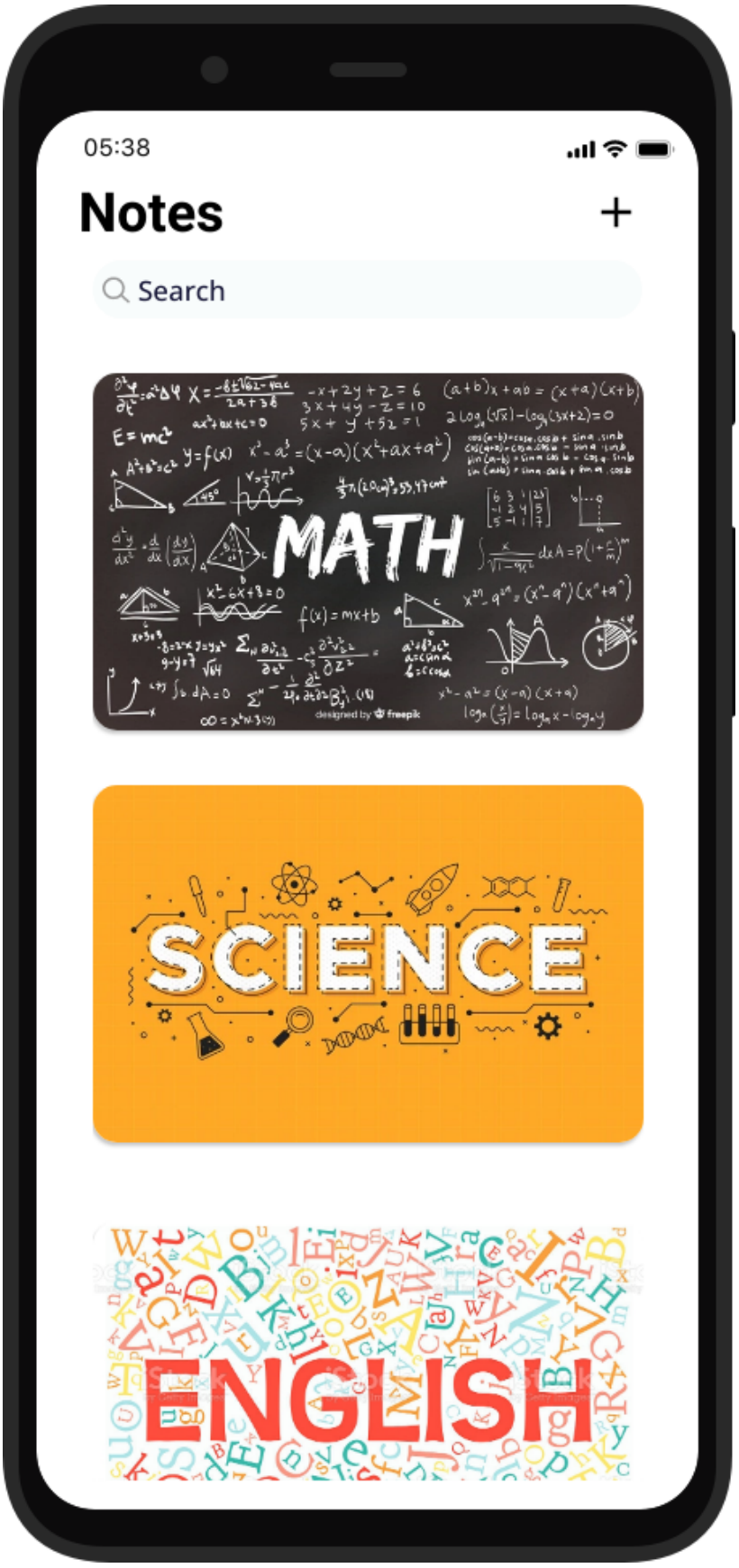
Cornell Notebook

Kyle Olson

4

screens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Notes
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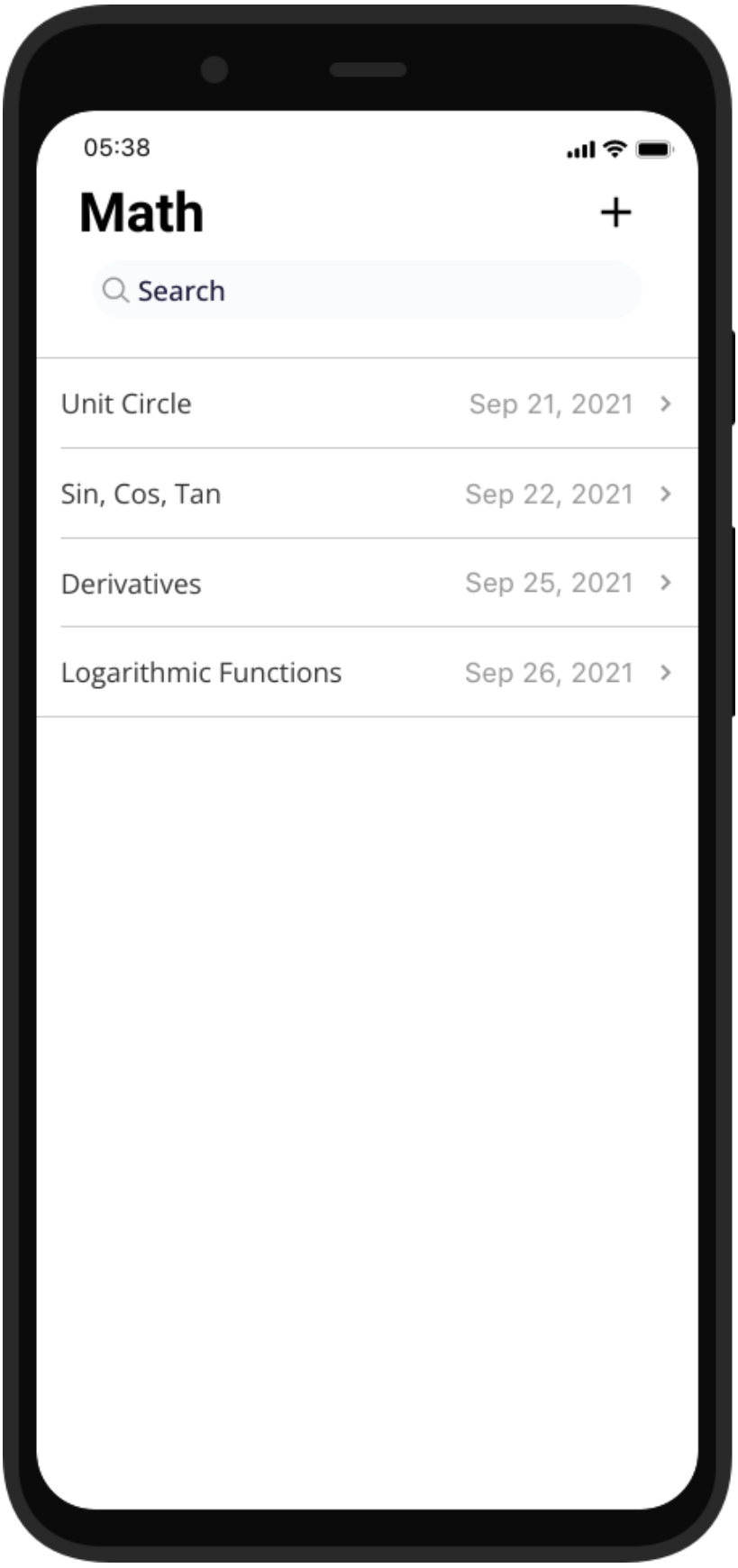
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Math
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Unit Circle
Sep 21, 2021
Sin, Cos, Tan
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Derivatives
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Logarithmic Functions
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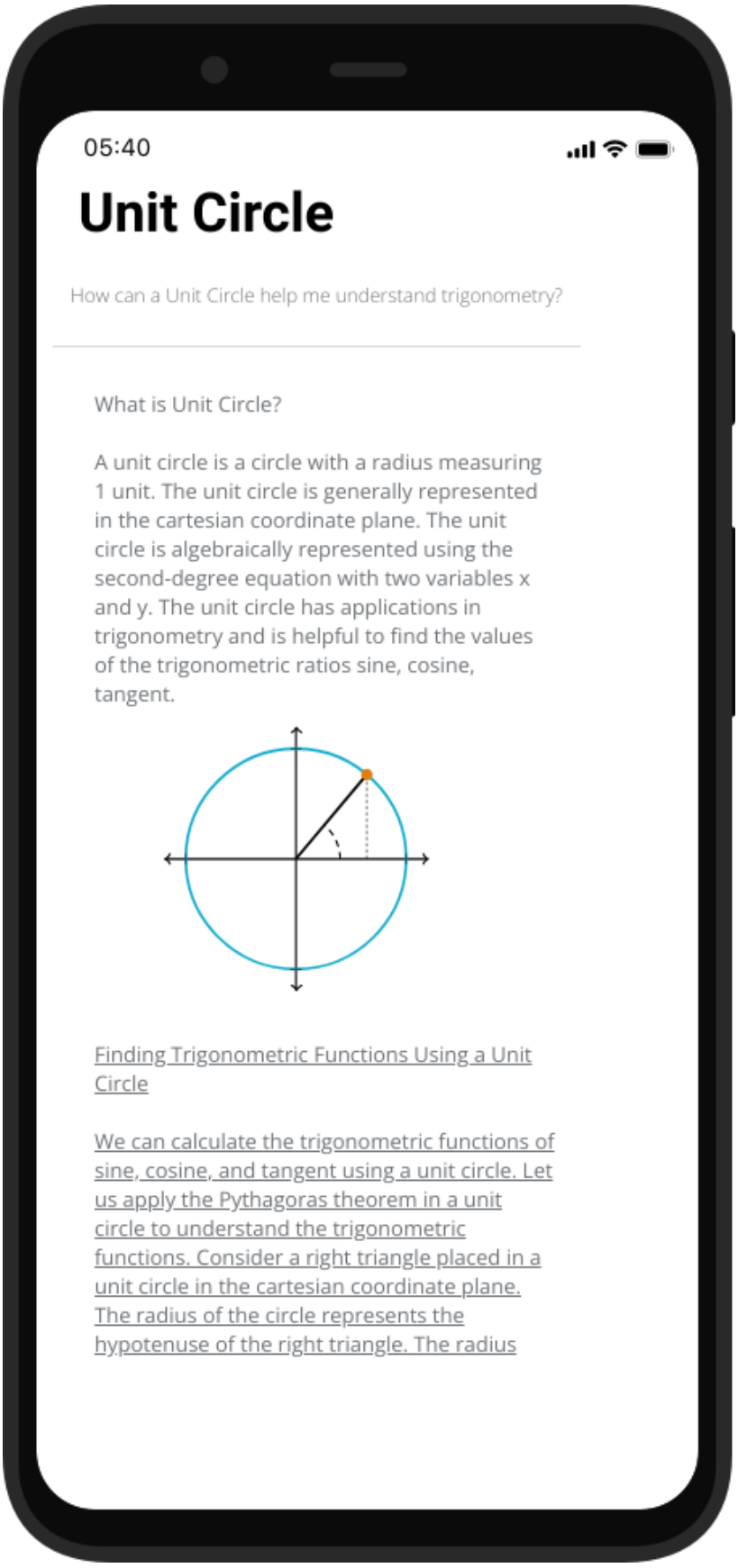
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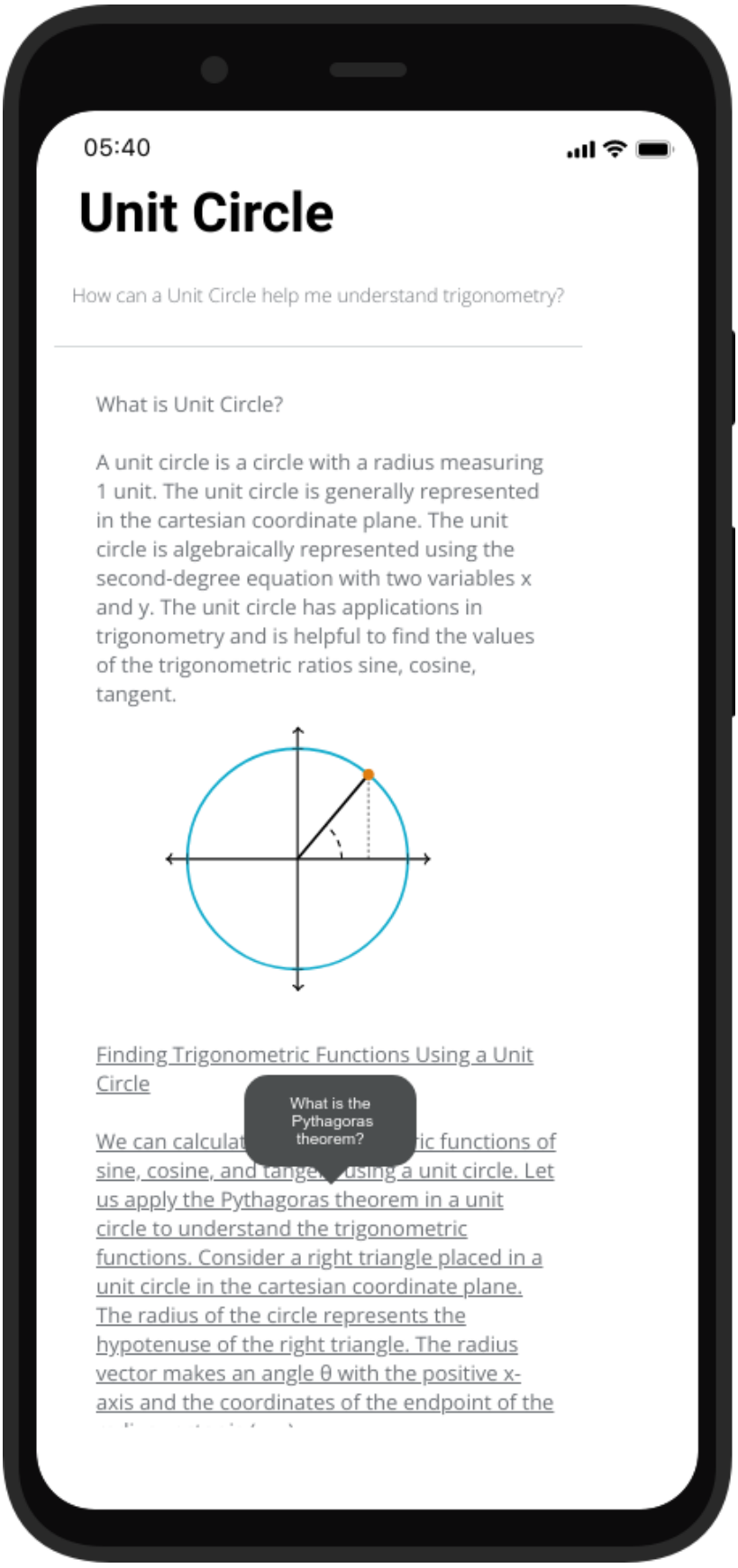
Unit Circle
How can a Unit Circle help me understand trigonometry?
What is Unit Circle?
A unit circle is a circle with a radius measuring 1 unit. The unit circle is generally represented in the cartesian coordinate plane. The unit circle is algebraically represented using the second-degree equation with two variables x and y. The unit circle has applications in trigonometry and is helpful to find the values of the trigonometric ratios sine, cosine, tangent.
Finding Trigonometric Functions Using a Unit Circle
We can calculate the trigonometric functions of sine, cosine, and tangent using a unit circle. Let us apply the Pythagoras theorem in a unit circle to understand the trigonometric functions. Consider a right triangle placed in a unit circle in the cartesian coordinate plane. The radius of the circle represents the hypotenuse of the right triangle. The radius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We can calculat ric functions of sine, cosine, and tange using a unit circle. Let us apply the Pythagoras theorem in a unit circle to understand the trigonometric functions. Consider a right triangle placed in a unit circle in the cartesian coordinate plane. The radius of the circle represents the hypotenuse of the right triangle. The radius vector makes an angle θ with the positive x-axis and the coordinates of the endpoint of the