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**Dynamic learning approach to studying curve stitching on a unit circle.**

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Summary: In this article, we report a study on how students learn elementary number theory concepts via pre-constructed activities of curve stitching on a unit circle. By using a dynamic learning approach, students were able to observe and guess the patterns of curve-stitching figures and explore how they were related to the total number of points on the circle and the interval between any pair of connected points. The subjects were pre-service and in-service primary mathematics teachers majored in mathematics or information technology in a BEd programme offered by the Hong Kong Institute of Education. We also discuss some teaching and learning issues related to this topic.

*Classification:* F65 K35 G95 D85

*Keywords:* curve stitching; teaching activities; dynamic geometry software; elementary number theory; greatest common divisor

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