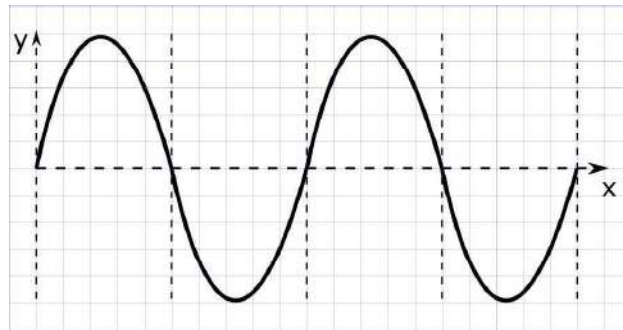NAME _____ DATE _____

## Scenario

Angela is shaking her hand left and right on a rope to get a continuous wave. A graph of a continuous wave is shown at right.


Using Representations

PART A: On the diagram, label a crest, a trough, an amplitude, and a wavelength.

PART B: On the diagram below, sketch a continuous wave with half the amplitude as Angela shaking her hand back and forth five times per second. The wavelength is 1 m. Calculate the speed of the wave. (Apply this to Parts C and D.)
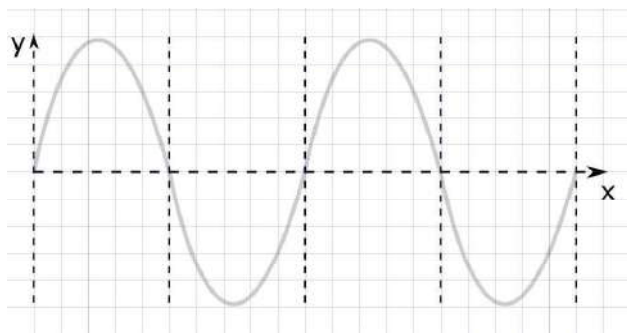
PART C: On the diagram below, sketch a continuous wave with twice the wavelength.
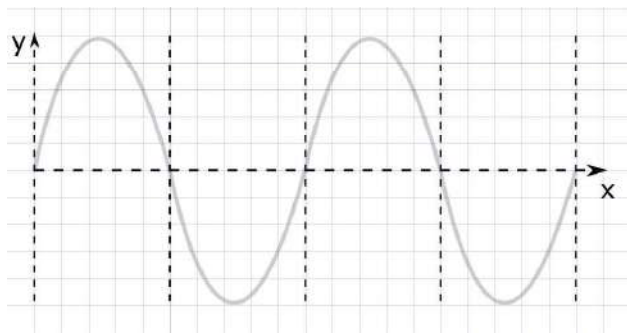
PART D: Is Angela shaking the string at the same rate?

_____ Faster _____ Slower _____ Same rate to get the last continuous wave

_____

_____

_____

_____

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