

SOLVING PROBLEMS USING SINUSOIDAL FUNCTIONS

(Real World Applications)

PART A ~ INTRODUCTION

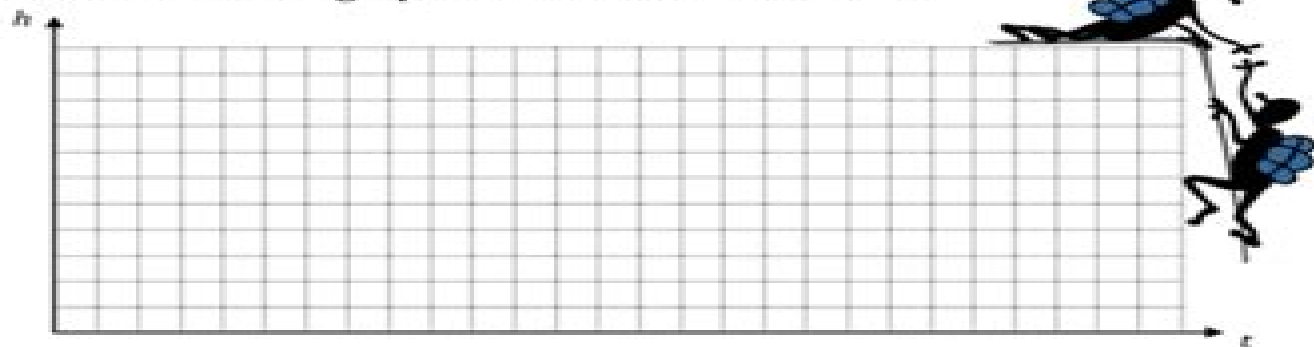
Algebraic and graphical models of the sine and cosine functions can be used to solve a variety of real-world problems involving **periodic behaviour**.

Determine the equation of the sinusoidal function by first calculating the period, amplitude, equation of axis, and then considering any phase shifts. This information can then be substituted into the general equation, $y = a\sin[k(x - d)] + c$.

PART B ~ EXAMPLES

Ex ① Max rides a Ferris wheel with a diameter of 14 m. He is at the lowest point of the ride at 10 seconds and at the highest point at 50 seconds. The lowest point is 2 m above the ground.

- a) Sketch a sinusoidal graph that models this situation.



- b) Determine the equation that models this situation:

i) as a cosine function

ii) as a sine function

Solving A Problem With Sinusoidal Functions

L Darling-Hammond



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