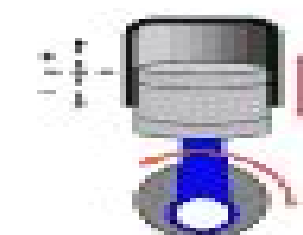


## Applications of Sinusoidal Functions (pp. 1 of 4)

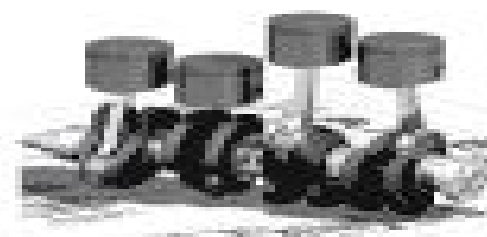
- 1) To power a combustion engine, fuel creates a tiny explosion that pushes a piston down a cylinder. The crank shaft is turned, which pushes the piston back up, and the cycle starts over again, repeating many times every second. Suppose the up and down motion of a piston in a running engine can be modeled by the function

$$d(t) = 3.8 \sin(50\pi t),$$

where  $t$  is time in seconds, and  $d(t)$  gives the displacement (in cm) of the piston above or below its level at rest.



A piston in the cylinder



4 pistons on a crank shaft

- A) What is the amplitude of this sinusoidal function? Interpret this in the context of the problem.
- B) What is the period of this sinusoidal function? Interpret this in the context of the problem.
- C) If the piston completes an up-and-down cycle at this rate (or, over this period), how many revolutions would the crank shaft turn per minute (rpm)?
- D) Determine a good graphing window to view several cycles of this function.
- E) Many engines run on four cylinders. This means that 4 pistons are attached to the crank shaft, and must be engineered where they rise and fall at even time intervals so that the engine runs "smooth." (See the figure above, and graph below.) Find three other sinusoidal functions that could be used to model the displacement of the other pistons in this engine (if the first piston uses the original function).

$$Y_1 = 3.8 \sin(50\pi t)$$

$$Y_2 = \underline{\hspace{2cm}}$$

$$Y_3 = \underline{\hspace{2cm}}$$

$$Y_4 = \underline{\hspace{2cm}}$$



# Precalculus Hs Mathematics Unit 02 Lesson 02

## Evaluating Functions

**Bernard Kolman,Arnold Shapiro**



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**Precalculus** Bernard Kolman,Arnold Shapiro,2014-05-10 Precalculus Functions Graphs provides a complete and self contained presentation of the basic mathematical techniques and ideas required for the successful completion of a calculus course The book emphasizes the learning and understanding of the concept of a function using function notation and being able to sketch graphs of functions with ease The text employs a number of pedagogic devices that have been proven effective

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