

Name _____

Homework 5
section 1.5

1. (6) On a graph of $y = \cos(Ax) + B$, points P and Q are consecutive lowest and highest points. Find the slope of the line through P and Q .

2. (3ea) In an electrical outlet, the voltage, V , in volts, is given as a function of time, t , in seconds, by the formula

$$V = V_0 \sin(120\pi t).$$

Answers should be complete sentences and contain proper units.

(a) What does V_0 represent in terms of voltage?

(b) What is the period of this function?

(c) How many oscillations are completed in 1 minute?

3. (5) Number 26 on page 36. (Do it on the back side of this sheet)