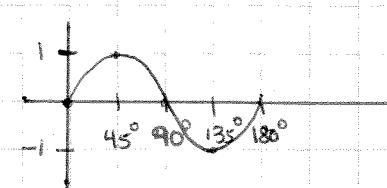


Pg. 374 #2 all (in degrees only), 3-6(b only), 7a, 8b

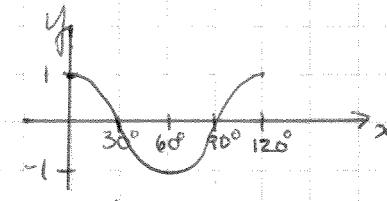
2). Recall: Period = $\frac{360^\circ}{k}$ for $y = \sin kx$, $y = \cos kx$, $k > 0$.

Function	Period
a) $y = \sin 6x$	$\frac{360^\circ}{6} = 60^\circ$
b) $y = \cos 4x$	$\frac{360^\circ}{4} = 90^\circ$
c) $y = \cos \frac{2}{3}x$	$\frac{360^\circ}{\frac{2}{3}} = 360^\circ \times \frac{3}{2} = 540^\circ$
d) $y = 8 \sin \frac{2}{3}x$	$360^\circ \times \frac{3}{2} = 540^\circ$
e) $y = 5 \sin \frac{1}{6}x$	$360^\circ \times \frac{6}{1} = 2160^\circ$
f) $y = 7 \cos 8x$	$\frac{360^\circ}{8} = 45^\circ$

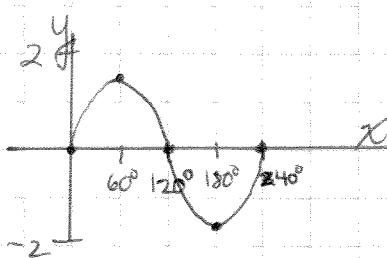
3. a) $y = \sin 2x$ period = $\frac{360^\circ}{2} = 180^\circ$ amplitude = 1
 $\text{D} = \{0 \leq x \leq 180^\circ\}$ $R = \{-1 \leq y \leq 1\}$



4. a) $y = 6 \sin 2x$ $\frac{360^\circ}{K} = 180^\circ$
 $K = \frac{360^\circ}{180^\circ} = 2$.
amplitude is 6



3. b) $y = \cos 3x$ period = $\frac{360^\circ}{3} = 120^\circ$ amplitude = 1
 $\text{D} = \{0 \leq x \leq 120^\circ\}$ $R = \{-1 \leq y \leq 1\}$



4. b) ampl. 1.5, period 240°
 $y = 1.5 \sin \frac{3}{2}x$

Pg 374 # 5b, 6b, 7a, 8b

Unit 7 lesson 4 Pg ② of ②

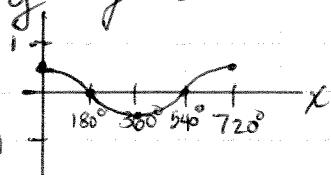
5b) amplitude 0.5

$$\text{period } 720^\circ \quad k = \frac{360^\circ}{720^\circ} = \frac{1}{2}$$

$$y = 0.5 \cos 0.5x$$

or

$$y = \frac{1}{2} \cos \frac{1}{2}x$$



Oops!

7a) Assigned last day

8b) Amplitude 2.5

$$\text{Period } 600^\circ \quad k = \frac{360^\circ}{600^\circ} = \frac{6}{10}$$

$$y = a \cos kx$$

$$\therefore y = \frac{5}{2} \cos \frac{3}{5}x$$

$$\frac{2 - (-3)}{2} = \frac{5}{2}$$

Amplitude 4

