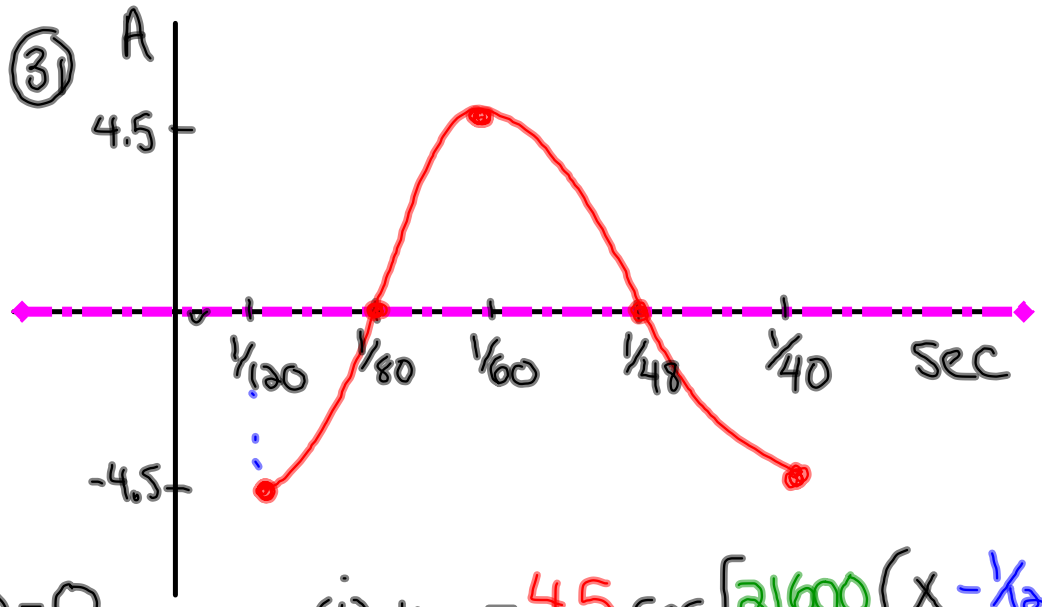
Questions from Homework

(3)



D=0

A=4.5

P=1/60

K=21600

C=1/120

(i) $y = -4.5\cos[21600(x - 1/120)]$

(ii) $y = -4.5\cos[21600(4 - 1/120)]$

$y = 4.5A$

(32) Period = Circumference

$= \pi d$

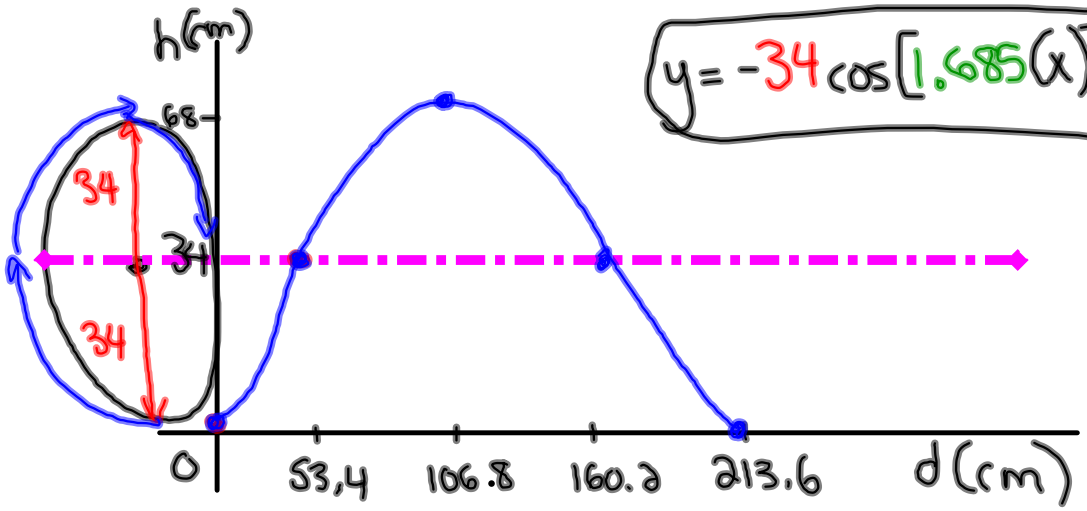
$= \pi(68)$

$= 213.64\text{cm}$

$P = 213.64$ $A = 34$ $D = 34$

$K = 1.685$ local min $= 0$ $C = 0$

local max $= 68$



$y = -34\cos[1.685(x)] + 34$

(ii) $y = -34\cos[1.685(150)] + 34$

$= 44.08\text{ cm}$

Graph the following equation!

$$2(y+3) = 4\cos\left[2(x+30)\right] - 2$$

$$y+3 = 2\cos\left[2(x+30)\right] - 1$$

$$y = 2\cos\left[2(x+30)\right] - 4$$

$y = \cos x$

x	y
0	1
90	0
180	-1
270	0
360	1

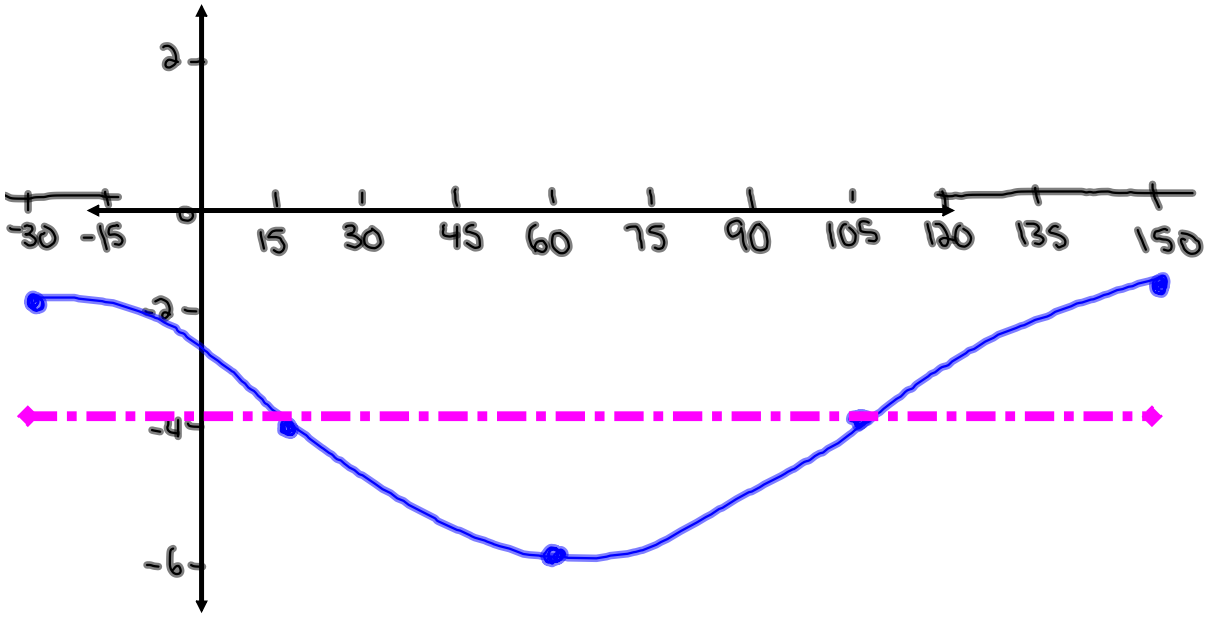
$A = 2$

$K = 2$ $\quad P = 180$

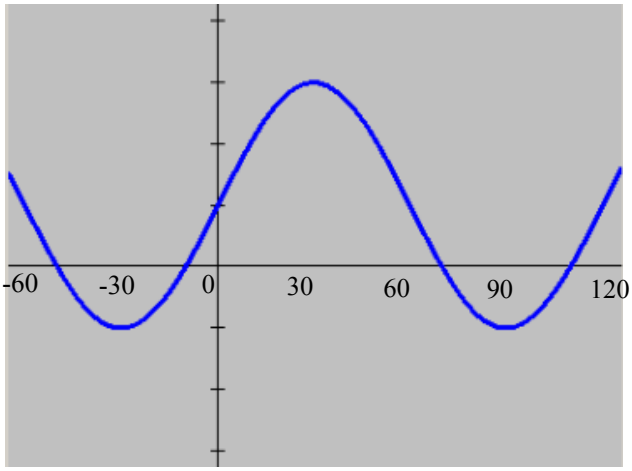
$C = -30$

$D = -4$

x	y
-30	-2
15	-4
60	-6
105	-4
150	-2



Find 4 equations to represent the following graph:



A =

P =

k =

D =