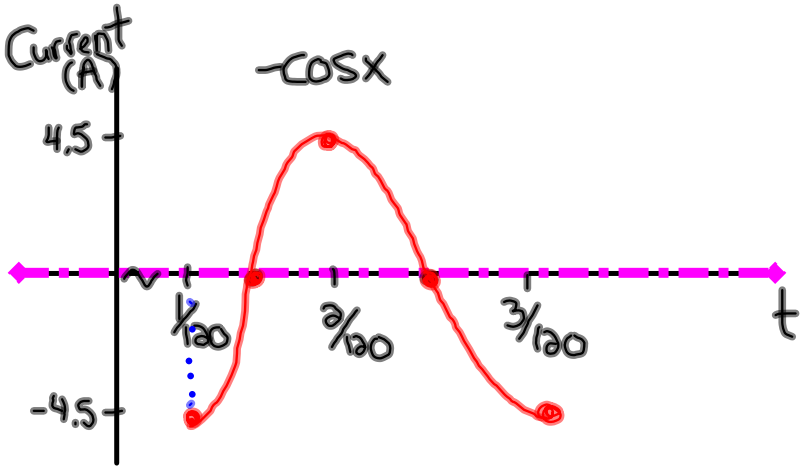
Questions from Homework

(31)



A= 4.5

P= 1/60

k= 21600

C= 1/120

D= 0

$$y = -4.5\cos[21600(x - \tfrac{1}{120})]$$

$$y = -4.5\cos[21600(4 - \tfrac{1}{120})]$$

$$y = 4.5$$

(32) Period = Circumference

$= \pi d$

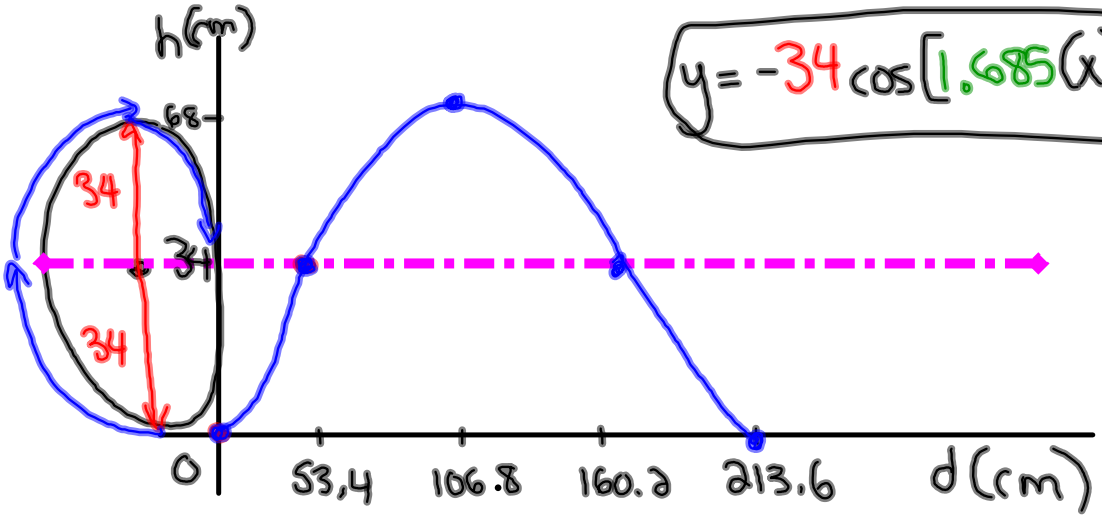
$= \pi(68)$

$= 213.64\text{cm}$

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

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

local max $= 68$



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

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

$= 44.08\text{ cm}$

Graph the following equation!

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

$\div 2 \quad \div 2 \quad \div 2$

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

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

$A = 2$ $\quad C = -30$

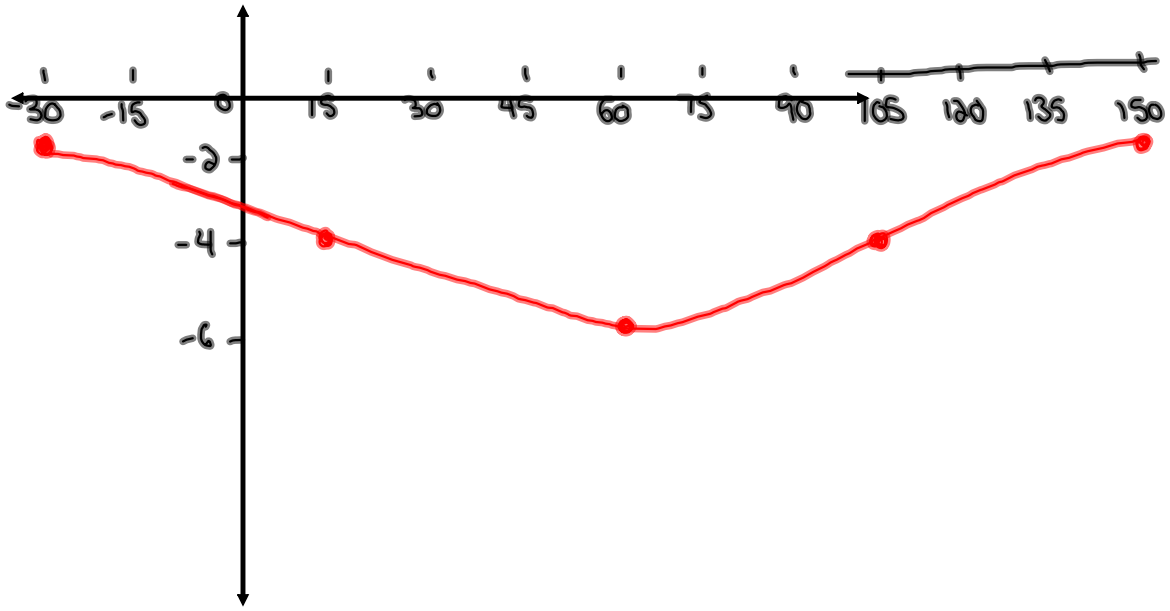
$k = 2$ $\quad D = -4$

$P = 180$

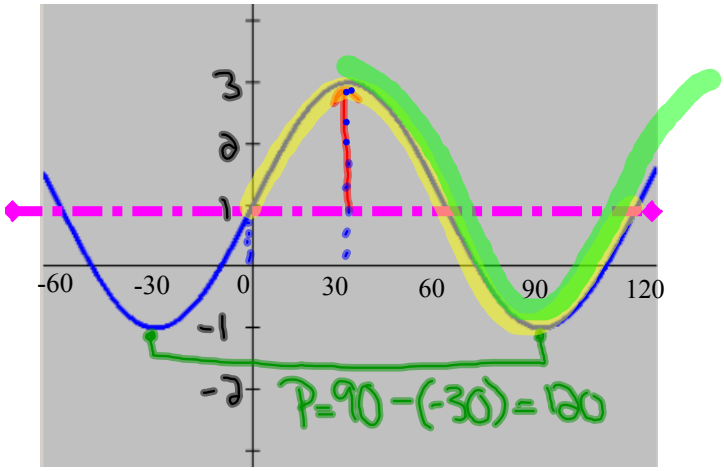
$y = \cos x$

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

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



Find 2 equations to represent the following graph:



A = 2

P = 120

k = 3

D = 1

$+\sin(C=0)$

$y=2\sin[3(x)]+1$

$+\cos(C=30)$

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