

14. $f(x) = \frac{2x+5}{3} \quad [0, 5]$

$f'(x) = \frac{2}{3}$

x	0	5
f(x)	5/3	5
	a. min	a. max

15. $f(x) = -x^2 + 3x \quad [0, 3]$

$f'(x) = -2x + 3 = 0$

$x = 3/2$

x	0	3/2	3
f(x)	0	2.25	0
	a. min	a. max	a. min

11. $h(x) = \sin^2 x + \cos x \quad [0, 2\pi]$

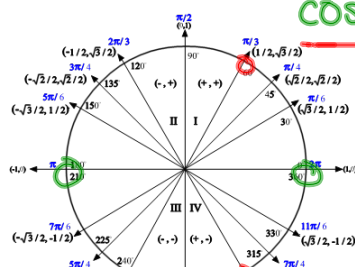
$h'(x) = 2 \sin x \cdot \cos x - \sin x = 0$

$\sin x (2 \cos x - 1) = 0$

$\sin x = 0$

$2 \cos x - 1 = 0$

$\cos x = 1/2$



$x = 0, \pi, \pi/3, 5\pi/3$