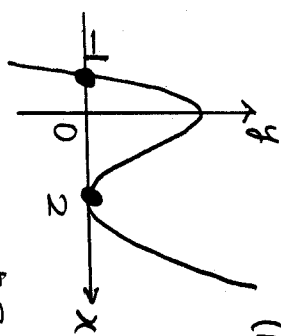


[49]



(1) ㊗ ㄱ!

$$y = S(x) = a(x+1)(x-2)^2$$

(0, 4) ㄷ ㄷ ㄱ ㄱ

$$4 = a \cdot 1 \cdot 4 \quad \therefore a = 1$$

ㄱ ㄱ  $S(x) = (x+1)(x-2)^2$

$$S(x) = \int_a^x f(t) dt \quad \& \quad x = a \text{ ㄷ ㄷ ㄱ ㄱ}$$

$$S(a) = \int_a^a f(t) dt$$

$$= 0$$

ㄱ ㄱ)  $S(a) = (a+1)(a-2)^2 = 0$

$a < 0$  ㄱ)  $a = -1$  (ㄱ ㄱ)

ㄱ ㄱ  $S'(x) = f(x)$

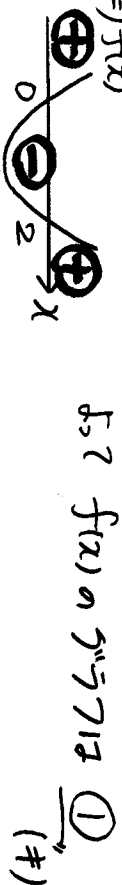
$$S(x) = (x+1)(x^2 - 4x + 4)$$

$$= x^3 - 3x^2 + 4x$$

ㄱ ㄱ  $f(x) = 3x^2 - 6x$

$$= 3x(x-2)$$

$(S'(x) =) f(x)$



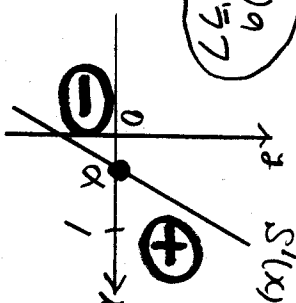
ㄱ ㄱ  $f(x)$  ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ

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(2)  $f(x) = S'(x)$  ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ

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$S'(x)$  ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ

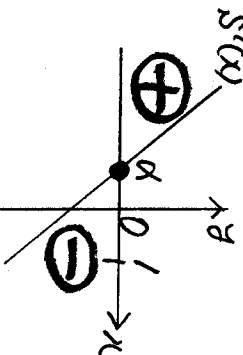


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$0 < \alpha < 1$

$x$	...	$\alpha$	...
$S'(x)$	-	0	+
$S(x)$	↘	↙	↗

ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ



ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ ㄱ

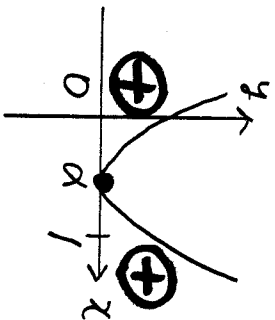
$x$	...	$\alpha$	...
$S'(x)$	+	0	-
$S(x)$	↗	↘	↙

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$0 < \alpha < 1$

$x$	...	$\alpha$	...
$S'(x)$	+	0	+
$S(x)$	↗	↗	↗

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