

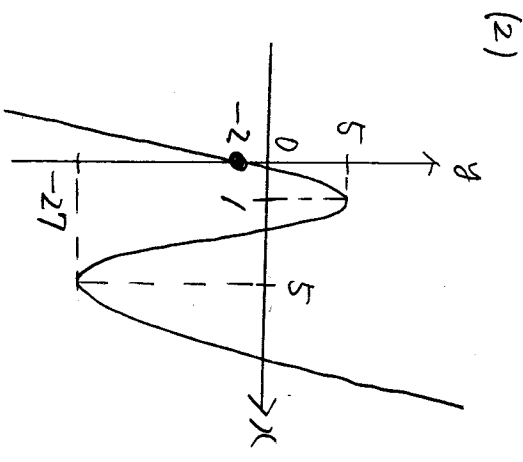
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(1)  $f(x) = x^3 - 9x^2 + 15x - 2$

$$f'(x) = 3x^2 - 18x + 15 = 3(x-1)(x-5)$$

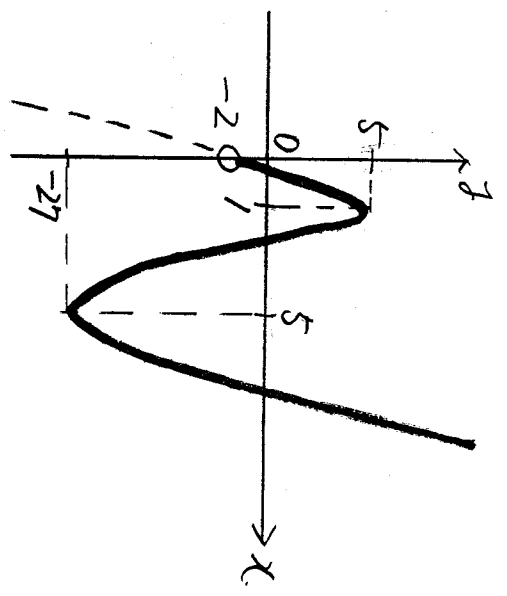
$x$	...	1	...	5	...
$f'(x)$	+	0	-	0	+
$f(x)$	↗	5	↘	-27	↗

$0 \leq x \leq a$  ( $a=7, 11, 13$ )  
 $f(x)$  の Max が 5  
 $\Leftrightarrow 1 \leq a < 5$



(2)

(3)



$f(x) = k$  の異なる正の解が 2 個 存在する

解

- (3~4)  $3x^2 - 18x + 15$  (カ) / (キ) 5 (ク) 5 (ケ) 5 (コ) -27
- (⇒2)  $1 \leq a \leq 7$  (カ) 5 (キ) -27 < k ≤ -2