

$$2x^3 + 3x^2 - 12x = a \text{ 对}$$

$$f(x) = 2x^3 + 3x^2 - 12x$$

$$g(x) = a \text{ とおす}$$

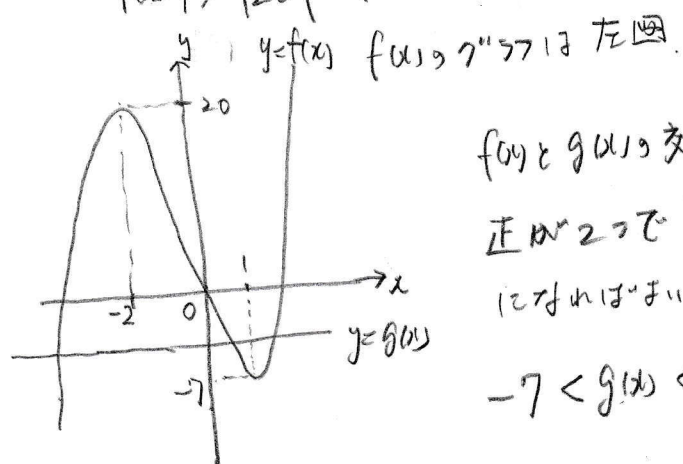
$$f'(x) = 6x^2 + 6x - 12$$

$$= 6(x^2 + x - 2)$$

$$= 6(x+2)(x-1)$$

$$f(-2) = -16 + 12 + 24 = 20 \quad f(1) = 2 + 3 - 12 = -7$$

x	$\dots$	-2	$\dots$	1	$\dots$
$f'(x)$	$+$	0	$-$	0	$+$
$f(x)$	$\nearrow$	20	$\searrow$	-7	$\nearrow$



$f(x)$ と $g(x)$ の交点

正の2つで負の1つ

にそれぞれ対応して

$$-7 < g(x) < 0$$

$\therefore$

$$\underline{-7 < a < 0}$$