5A

/15

SP3

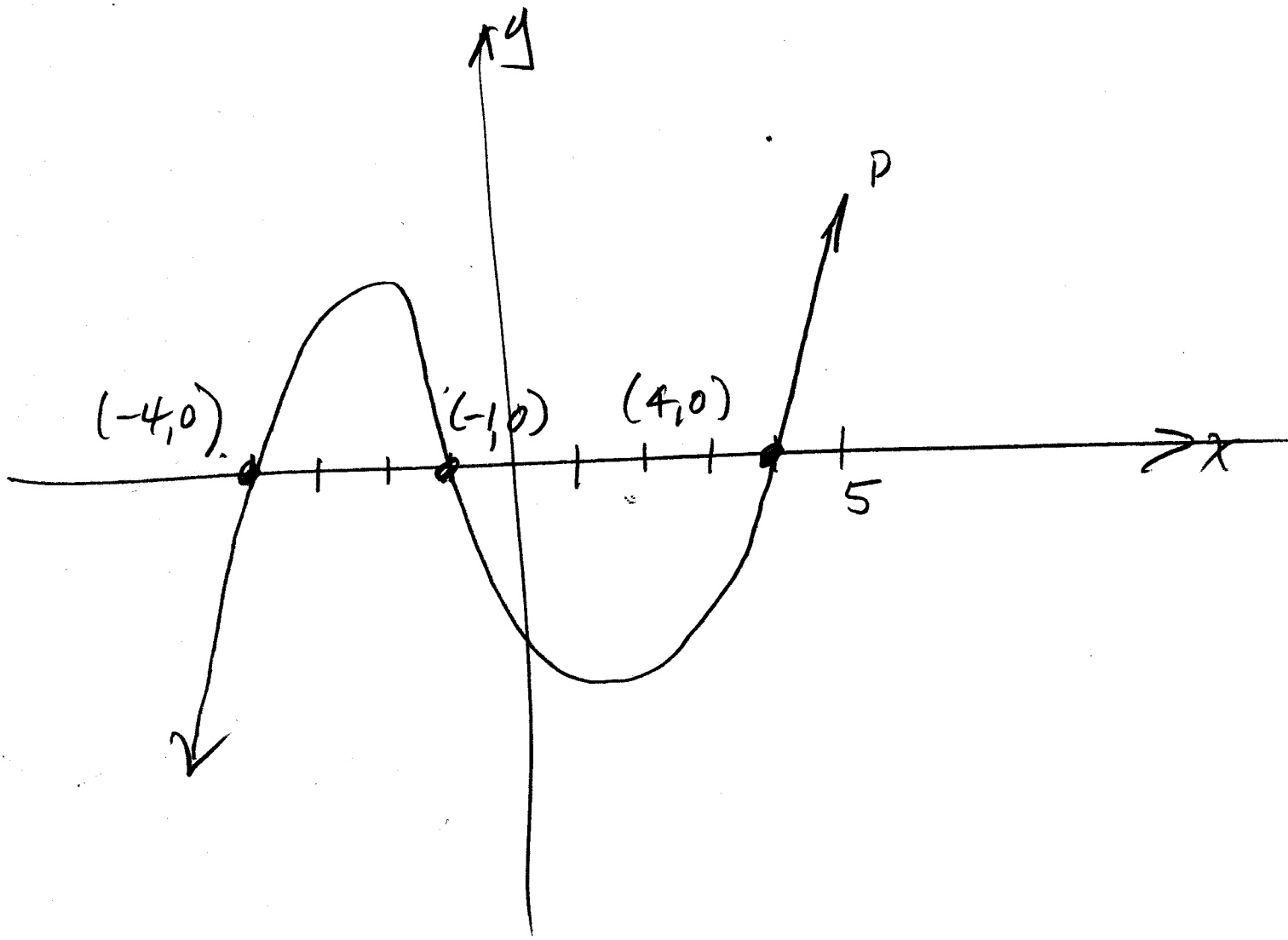
① $P(x) = x^3 + x^2 - 16x - 16$

$= x^2(x+1) - 16(x+1)$

$= (x^2 - 16)(x+1)$

$= (x+4)(x-4)(x+1)$

Zeros: $-4, 4, -1$



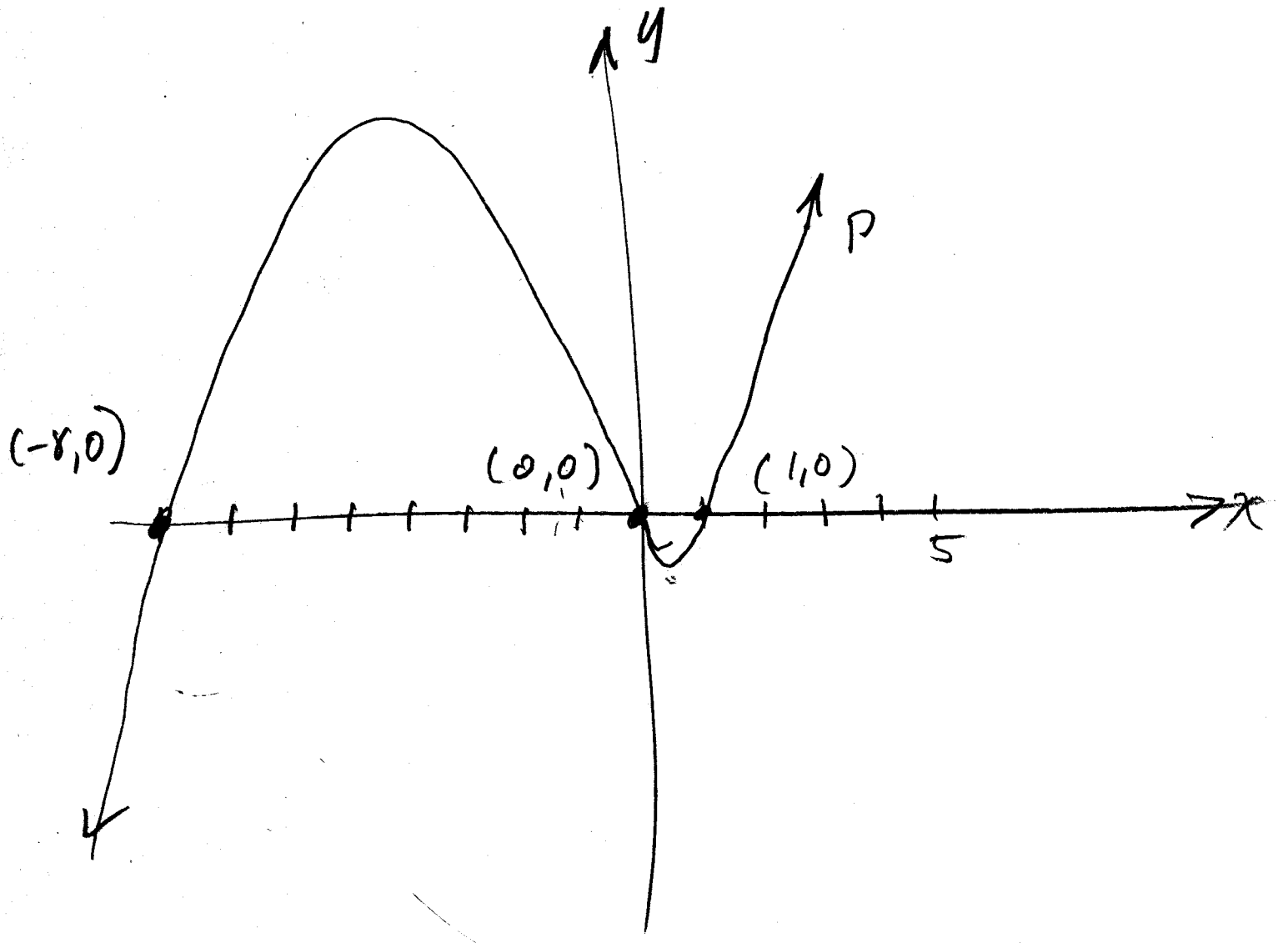
~~5.0/2~~

(2) $p(x) = 2x^3 + 14x^2 - 16x$

$= 2x^2(x + 7x - 8)$ $\quad ac = -8$

$= 2x(x+8)(x-1)$ $\quad (8, -1)$

Zeros: $0, -8, 1$



Sp 13

③ $P(x) = -x^3 - 2x^2 + 43x - 40$