SIGN ANALYSIS BY FACTORS

Profile of a factored cubic

$$P(x) = (x+2)(x-1)(x-5)$$

3 ROOTS · 4 INTERVALS



KEY POINTS

GLOBAL

NEGATIVE ON

$(-\infty, -2) \cup (1, 5)$

an odd number of negative factors

POSITIVE ON

$(-2, 1) \cup (5, \infty)$

an even number of negative factors

SOLVES

$(x+2)(x-1)(x-5) < 0$

the negative intervals