

- Solve and graph the solution set on a number line: $f(x) = (x+4)(x+9)(x-5) \geq 0$

GRAPHICAL APPROACH ...

ZEROS: $x = -4$ MULT 1

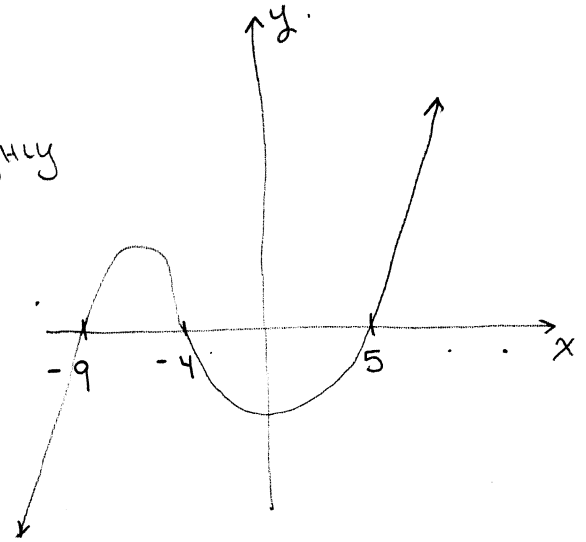
$x = -9$ MULT 1

$x = 5$ MULT 1

LEADING TERM: x^3

END BEHAVIOR: DOWN LEFT / UP RIGHT

GRAPH IS ROUGHLY



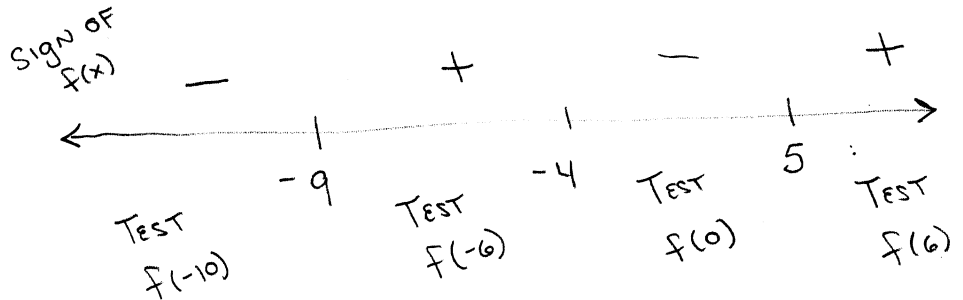
$f(x) \geq 0$ on $[-9, -4] \cup [5, \infty)$

SIGN CHART APPROACH ...

ZEROS: $x = -4$

$x = -9$

$x = 5$



$f(x) \geq 0$ on $[-9, -4] \cup [5, \infty)$