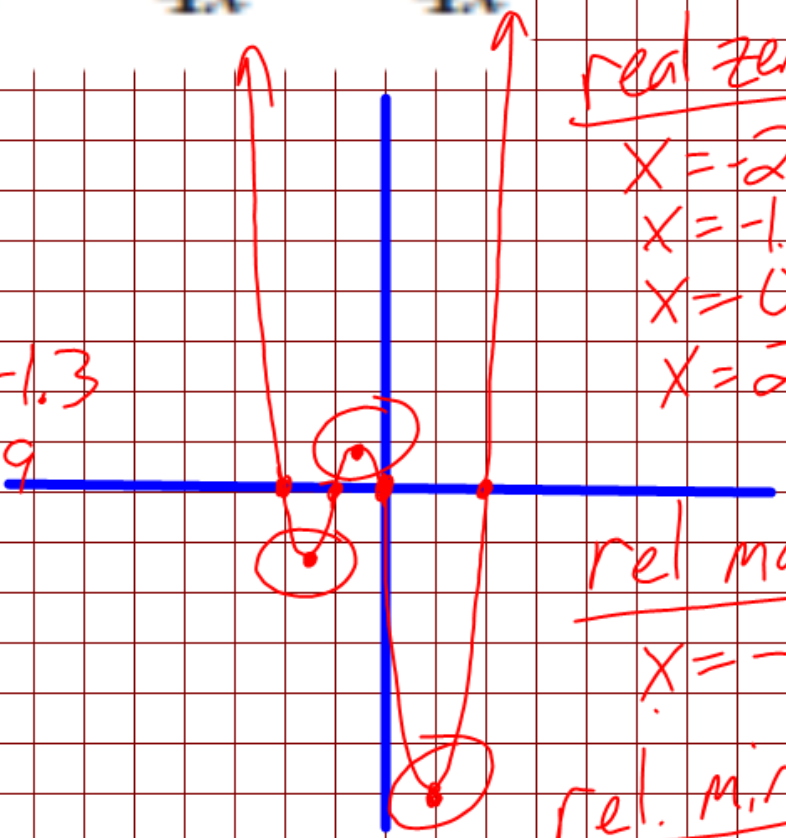
$$f(x) = x^4 + x^3 - 4x^2 - 4x$$

| x | f(x) |
|---|---|
| -4 | 144 |
| -3 | 30 |
| -2 | 0 |
| -1 | 0 |
| 0 | 0 |
| 1 | -6 |
| 2 | 0 |
| 3 | 60 |
| 4 | 240 |

-1.5 | ≈ -1.3

-.5 | ≈ .9



real zeros

X = -2

X = -1

X = 0

X = 2

rel max

X = -.5

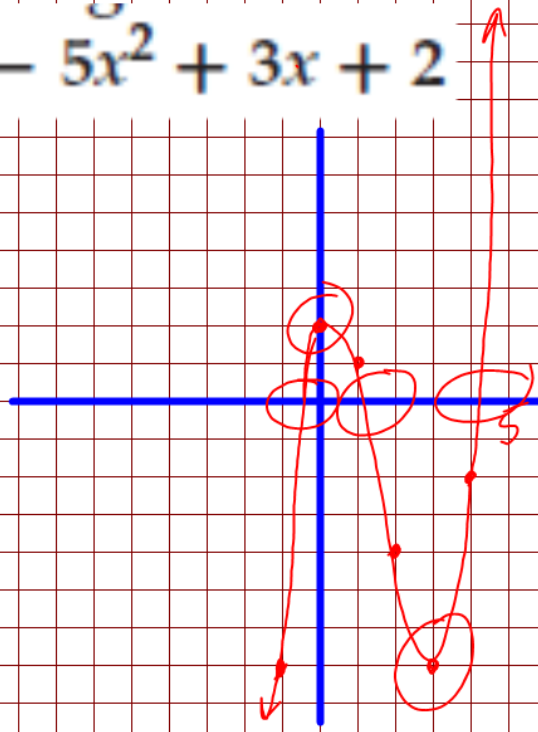
rel. min

X = 1

X = -1.5

$f(x) = x^3 - 5x^2 + 3x + 2$

| x | f(x) |
|---|---|
| -4 | -154 |
| -3 | -79 |
| -2 | -32 |
| -1 | -7 |
| 0 | 2 |
| 1 | 1 |
| 2 | -4 |
| 3 | -7 |
| 4 | -2 |
| 5 | 17 |



real zeros
between 0 & -1
between 1 & 2
between 4 & 5

rel. max
x = 0

rel. min
x = 3

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