

APR

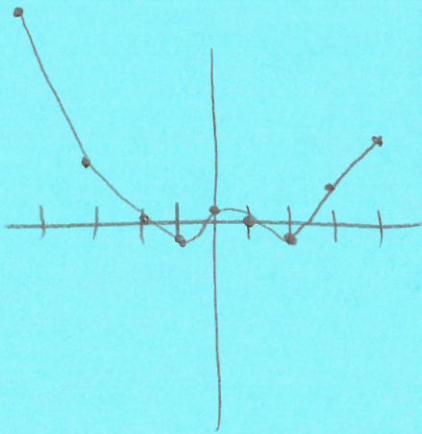
Name: Key

Using the table of values:

- Draw a sketch
- State the number of real roots and where they are located in the table ($x=?$ or between ____ & ____)
- State the number of imaginary roots
- State the minimum degree possible
- State the number of turning points
- State the number of relative minimum(s)
- State the number of relative maximum(s)
- State whether the leading coefficient is positive or negative
- State the end behavior

1.

x	y
-4	520
-3	143
-2	0
-1	-24.5
0	.10
1	0
2	-2
3	12.5
4	108

4 Real $(-2, 0)$ $-1 < x < 0$ Btw -1 and 0 $(1, 0)$ $2 < x < 3$ Btw 2 and 3

0 Imag

D: 4

TP: 3

Min: 2

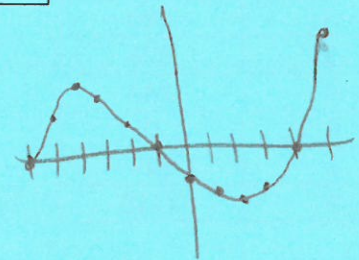
Max: 1

LC: +

EB: $L + \infty$ $R + \infty$

2.

x	y
-6	0
-5	36
-4	48
-3	42
-2	24
-1	0
0	-24
1	-42
2	-48
3	-36
4	0
5	66

3 Real $(-6, 0)$
 $(-1, 0)$
 $(4, 0)$

0 Imag

D: 3

TP: 2

Min: 1

Max: 1

LC: +

EB: $L - \infty$ $R + \infty$

3.

x	y
-5	0
-4	-42
-3	0
-2	60
-1	96
0	90
1	48
2	0
3	0
4	126
5	480

4 Real $(-5,0)$
 $(-3,0)$
 $(2,0)$
 $(3,0)$

0 Imag

D: 4
 TP: 3
 #Min: 2
 #Max: 1
 LC: +
 EB: $L + \infty$
 $R + \infty$

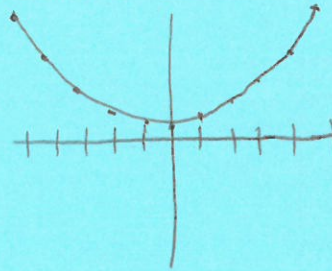


4.

x	y
-5	27
-4	18
-3	11
-2	6
-1	3
0	2
1	3
2	6
3	11
4	18
5	27

0 Real
 2 Imag

D: 2
 TP: 1
 #Min: 1
 #Max: 0
 LC: +
 EB: $L + \infty$
 $R + \infty$



5.

x	y
-6	1710
-5	0
-4	-156
-3	180
-2	378
-1	240
0	0
1	324
2	2310

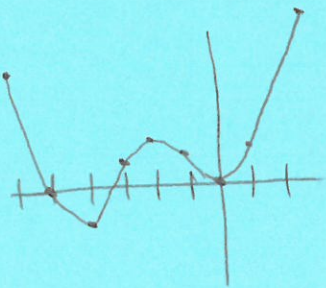
4 Real $(-5,0)$

$-4 < x < -3$ Btw
 -3 and -4

Double root $(0,0)$

0 Imag

D: 4
 TP: 3
 #Min: 2
 #Max: 1
 LC: +
 EB: $L + \infty$
 $R + \infty$



6.

x	y
-3	61
-2	6
-1	-3
0	-2
1	-3
2	6
3	61

2 Real

$-2 < x < -1$ Btw
 -1 and -2
 $1 < x < 2$ Btw
 1 and 2

2 Imag

D: 4
 TP: 3
 #Min: 2
 #Max: 1
 LC: +
 EB: $L + \infty$
 $R + \infty$

