**Curve Sketching**

**Example:** Sketch the graph of

1. Domain: all numbers
2. Asymptotes:
	1. v.a. none
	2. h.a. none

1. Critical points:

so
Possible infl. pts:
 so

1. Setting up the table

2. Find zeros:
3. Find y-intercept:
4. Evaluate f: f(-2)=-32, f(-1.2)=-17.9, f(0)=0, f(0.5)=-2.3, f(1)=-5

**Example:** Sketch the graph of

1. Domain: all numbers
2. Asymptotes:
	1. v.a. : none
	2. h.a. : none
3.
4. Critical points:
so:
Possible infl. pts:
so:
5. Setting up the table

6. Find zeros: , so can’t find them without computer
7. Find y-intercept
8. Evaluate f:

**Example:** Sketch the graph of

1. Domain: all numbers except

2. Asymptotes:

* 1. v.a. :
	2. h.a.

3.

1. Critical points: or
so: none
Possible infl. pts: or
so:
2. Setting up the table
3. Find zeros: , so
4. Find y-intercept
5. Evaluate f:

**Example:** Sketch the graph of

1. Domain: all numbers except
2. Asymptotes:

* 1. v.a. :
	2. h.a.:
1.
2. Critical points:
so:
Possible infl. pts:
so: none

1. Setting up the table



1. Find zeros: , so
2. Find y-intercept

**Example:** Sketch the graph of

1. Domain: all numbers except

2. Asymptotes:

* 1. v.a.:
	2. h.a.

3.

1. Critical points: or
Possible infl. pts: or
2. Setting up the table:


1. Find zeros: , so
2. Find y-intercept:
3. Evaluate f: