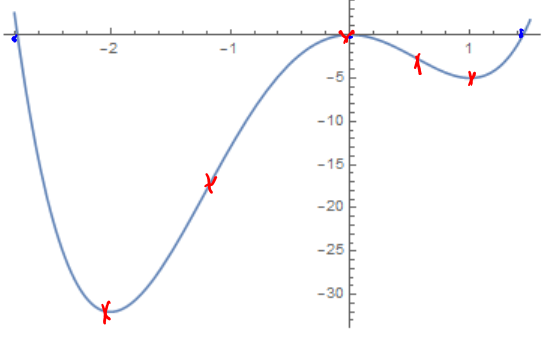
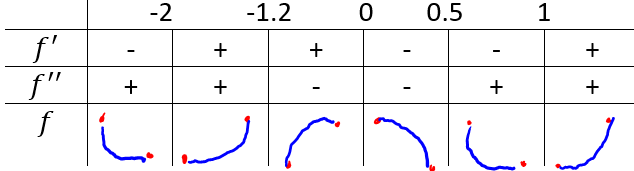
**Curve Sketching**

**Example:** Sketch the graph of

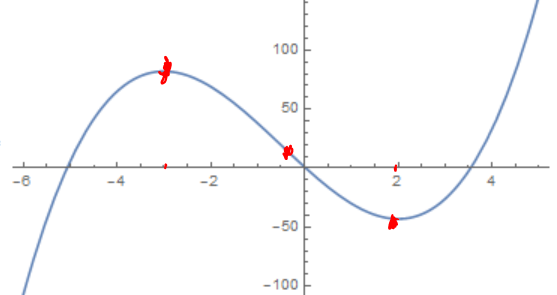
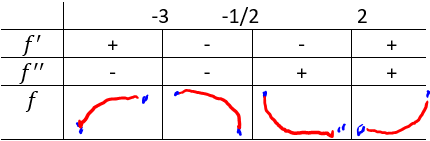
1. Domain: all numbers
2. Asymptotes:
   1. v.a. none
   2. h.a. none

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
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

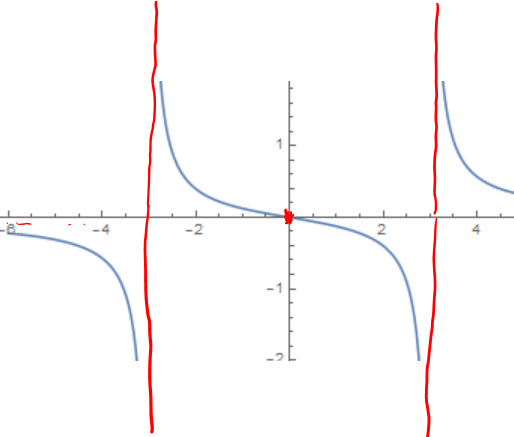
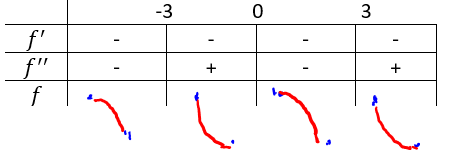
1. Domain: all numbers except

2. Asymptotes:

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



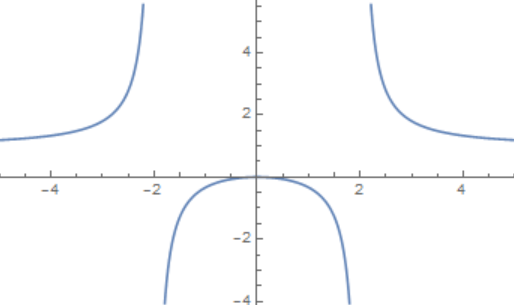
3.

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:



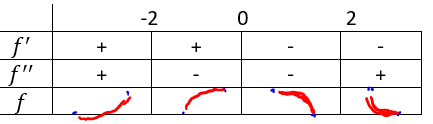
* 1. v.a. :
  2. h.a.:

2. Critical points:   
   so:   
   Possible infl. pts:   
   so: none



1. Setting up the table



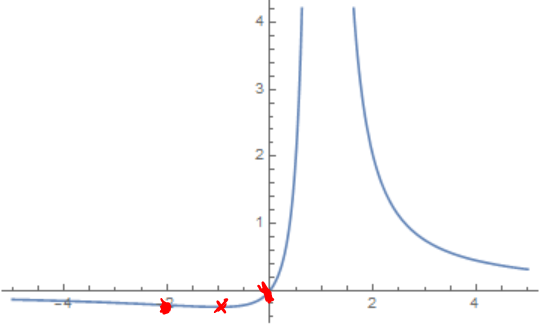




1. Find zeros: , so
2. Find y-intercept

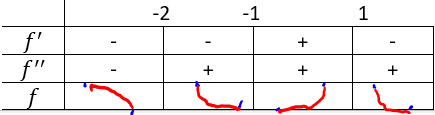
**Example:** Sketch the graph of

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: