Basic Graphs v. 4

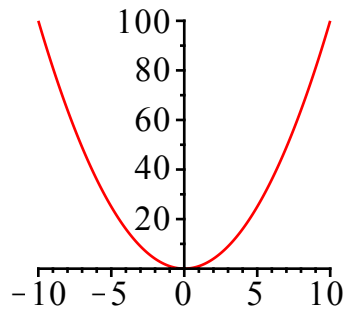## Math 1500 Fall 2010

1. Lines:
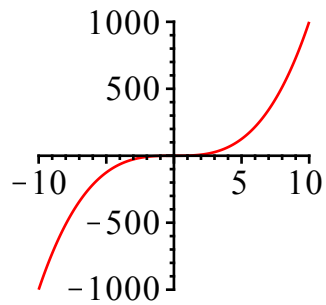
y=mx + b where m is slope and b is y-intercept.

2. Polynomials:

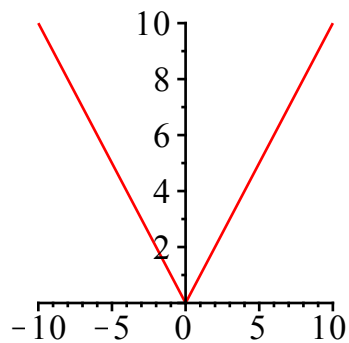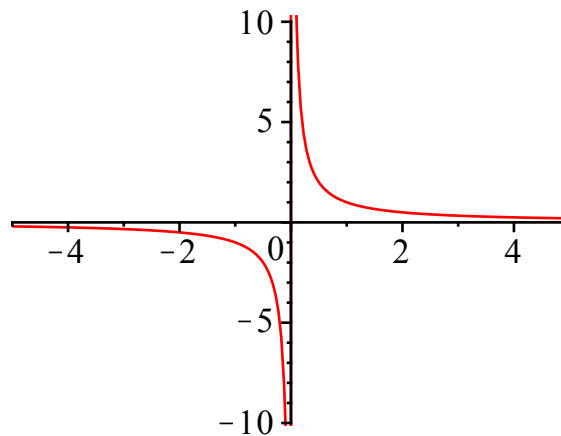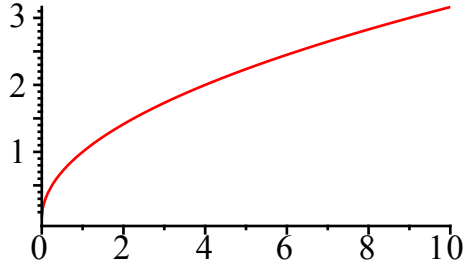$y=x^2$

$y=x^3$

3. Absolute Value:
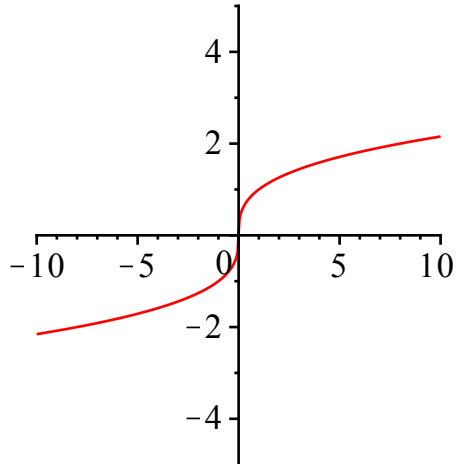
$y=|x|$

4. Reciprocal:

$y=\dfrac{1}{x}$

5. Roots:

$$y=\sqrt{x}$$
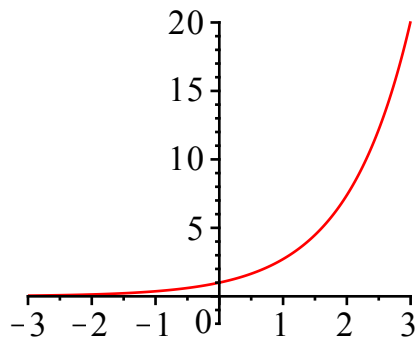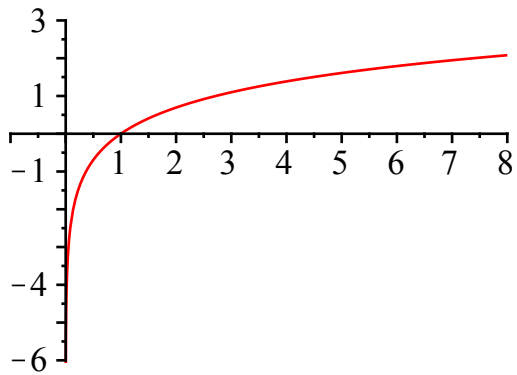
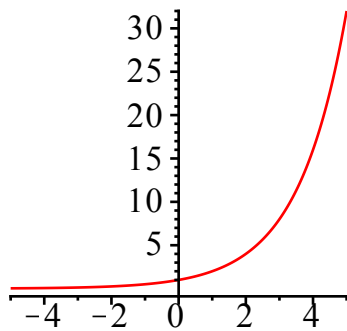

$$y=\sqrt[3]{x}$$

6. Exponential and Logarithmic:

$$y=e^x$$
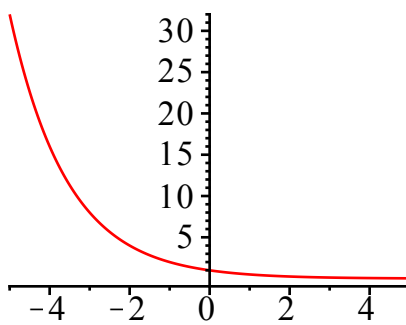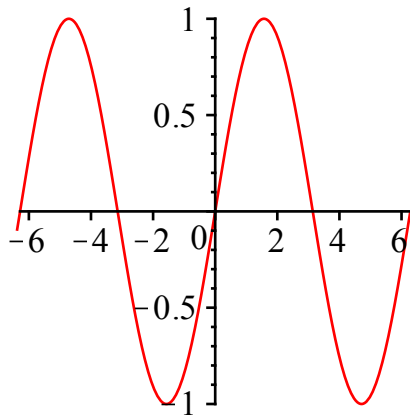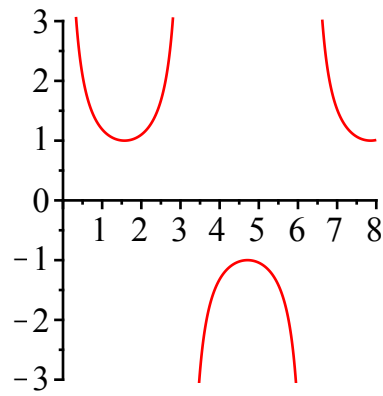

$$y=\ln(x)$$

$$f(x)=2^x$$

$$f(x)=\left(\frac{1}{2}\right)^x$$

7. Trigonometric:

f(x)=sin(x)

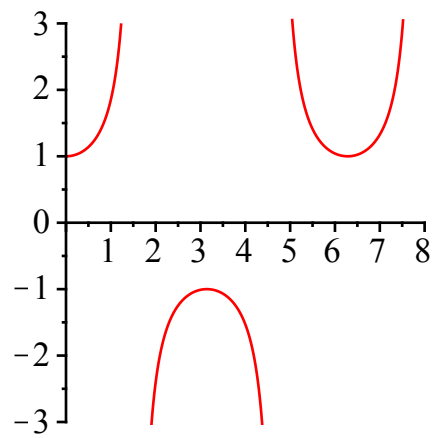f(x)=csc(x)

f(x)=cos(x)
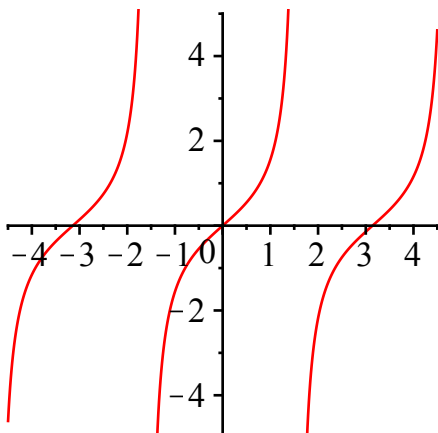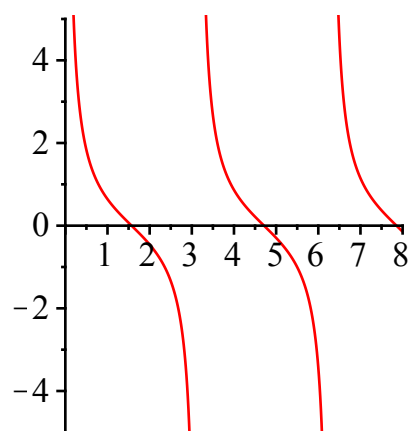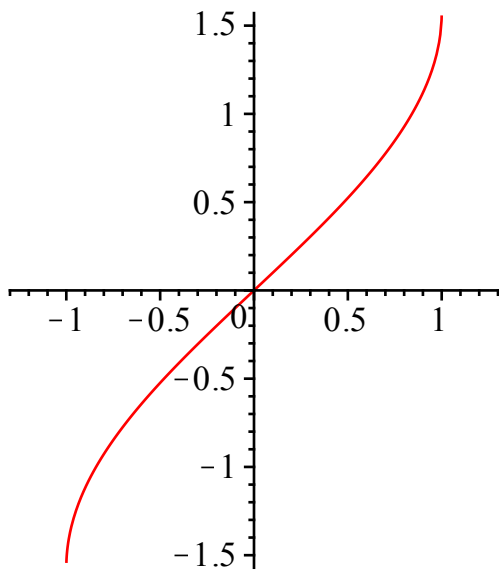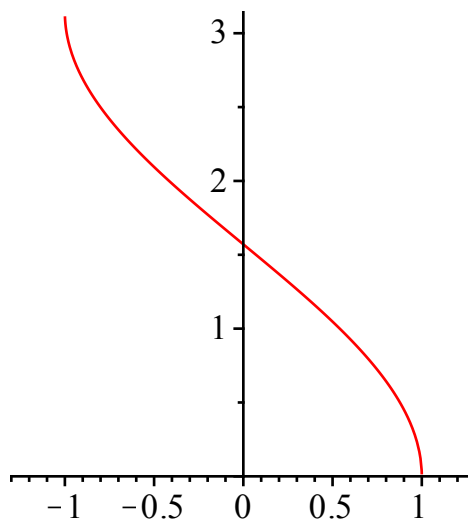
f(x)=sec(x)

f(x)=tan(x)
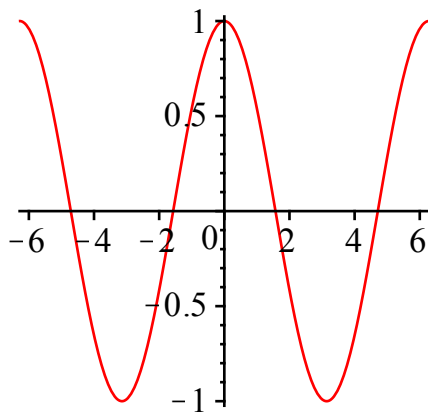
f(x)=cot(x)

8. Inverse Trigonometric:

f(x)=arcsin(x)

f(x)=arccos(x)

f(x)=arctan(x)