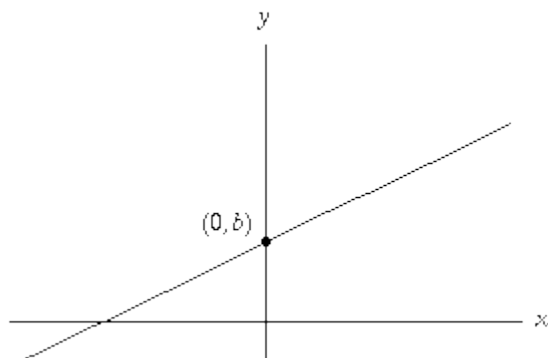
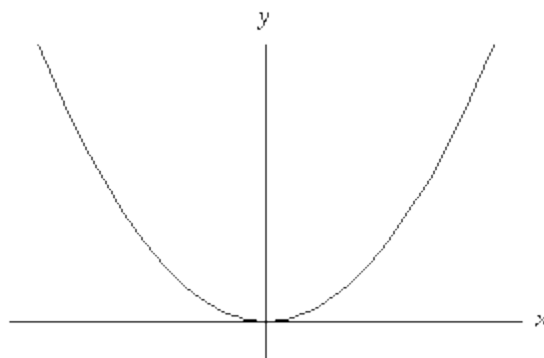


# MA 16020 LESSON 12: AREA BETWEEN TWO CURVES (ALGEBRA REVIEW)

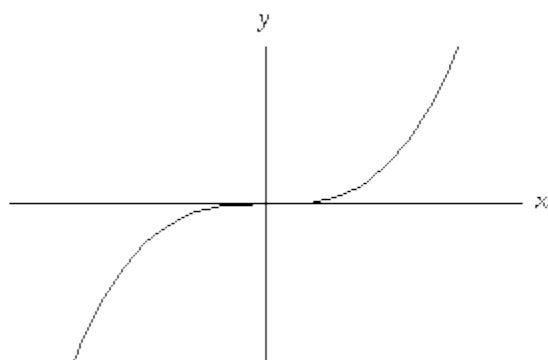
## Common Graphs:



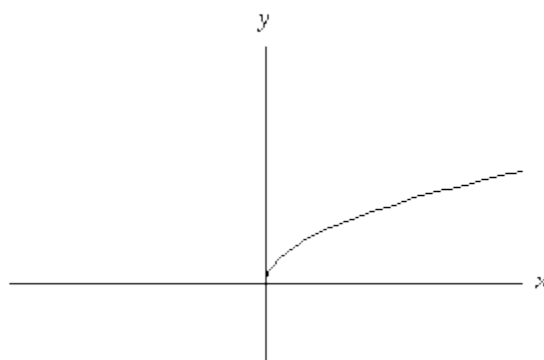
$$y = mx + b$$



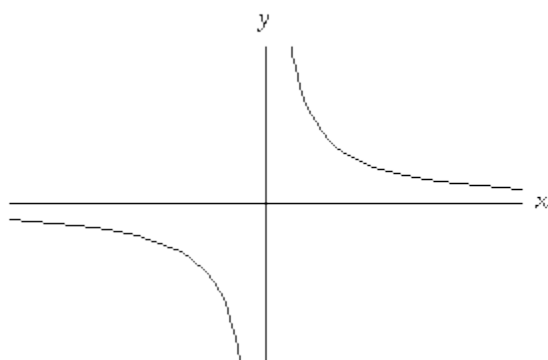
$$y = x^2$$



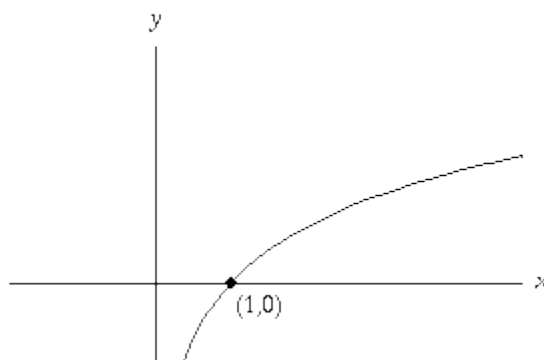
$$y = x^3$$



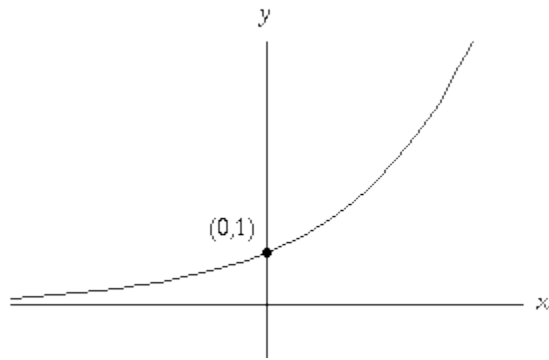
$$y = \sqrt{x}$$



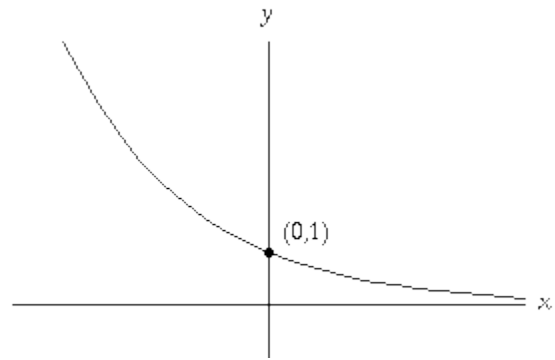
$$y = \frac{1}{x}$$



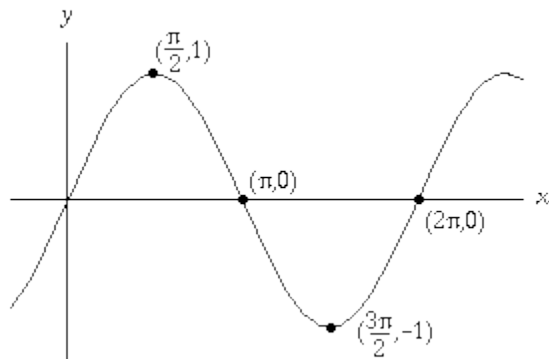
$$y = \ln(x)$$



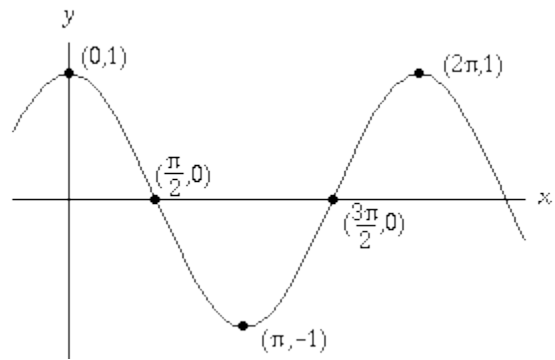
$$y = e^x$$



$$y = e^{-x}$$



$$y = \sin(x)$$



$$y = \cos(x)$$

**(OPTIONAL HOMEWORK): Graph the following functions**

1.  $y = -\frac{2}{5}x + 3$

2.  $y = 2x^2 + 1$

3.  $y = -x^2 + 7$

4.  $y = \sqrt{x + 3}$

5.  $y = \frac{x}{12}$

6.  $y = e^{2t}$

7.  $y = e^{5t}$

8.  $y = \cos(x) + 3$

9.  $y = -\sin(x)$

10.  $y = x^2 + 2x + 1$

\* Note for 10. Rewrite  $y$  using the Perfect Square Formula.

