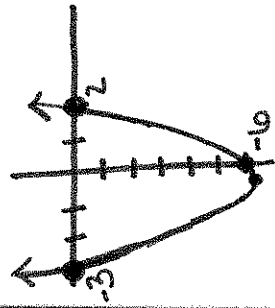


$$y = (x-3)(x+2)$$

$$y = x^2 + x - 6$$

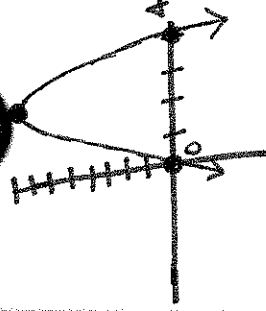


minimum  
at  
 $x = 3$

$$\text{min} = (3, -1)$$

$$y = -2x(x-4)$$

$$y = x^2 - 4x + 6$$

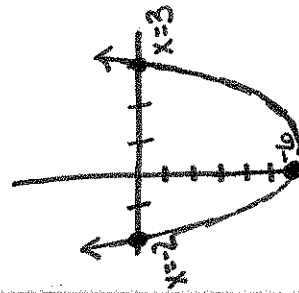


minimum  
occurs  
at  $x = 2$

$$\text{min} = (2, 2)$$

$$y = (x-4)(x-2)$$

$$y = 2x^2 - 8x$$

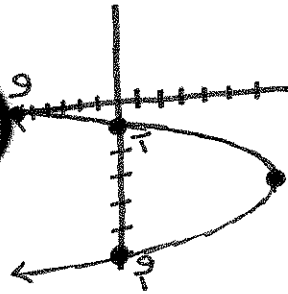


minimum  
occurs  
at  
 $x = 3$

$$\text{min} = (3, -6)$$

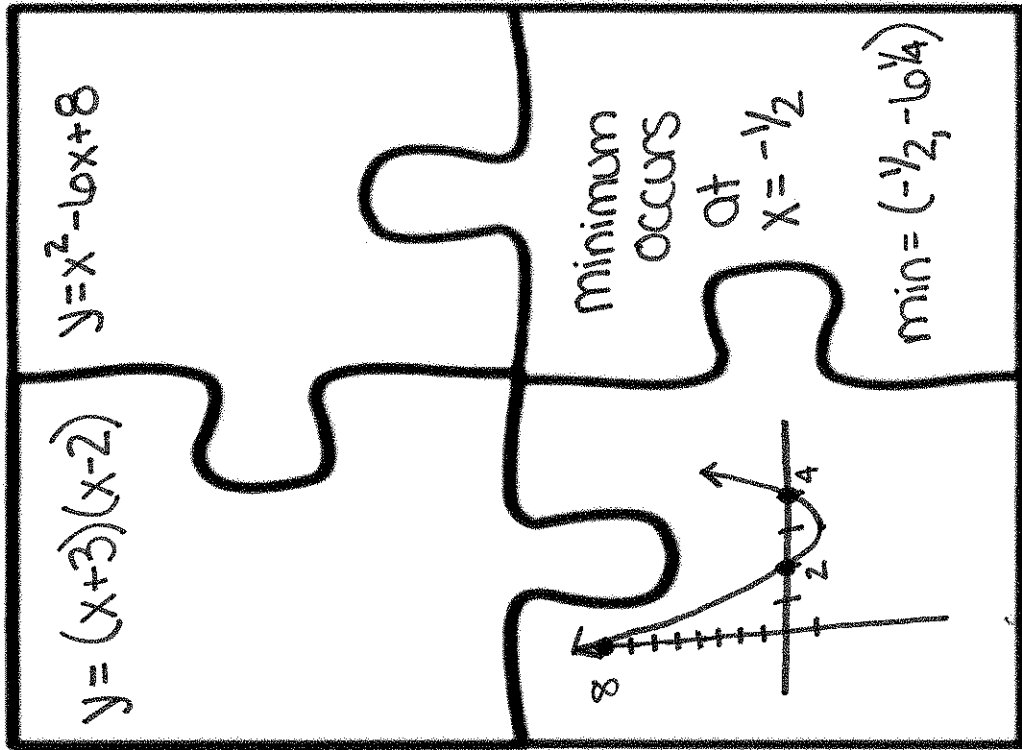
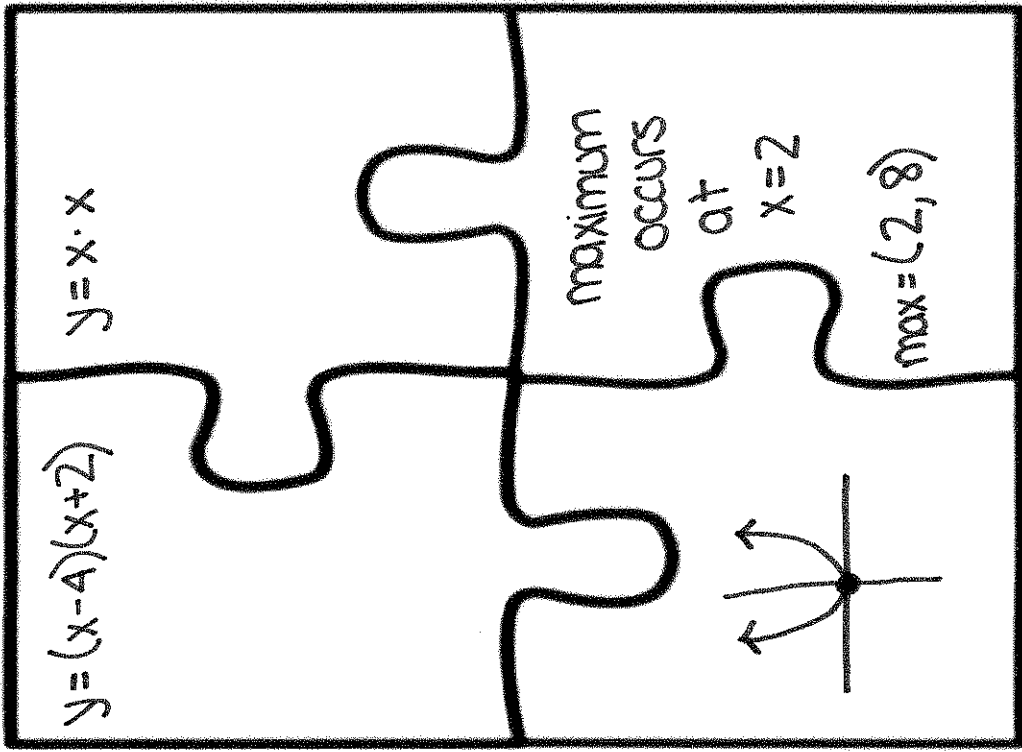
$$y = x^2$$

$$y = -2x^2 + 8x$$



minimum  
occurs  
at  
 $x = 2$

$$\text{min} = (2, -8)$$



$$y = (x+6)(x+1)$$

$$y = x^2 - 2x - 8$$

$$y = 2x(x+4)$$

$$y = x^2 + 7x + 6$$

minimum  
at  
 $x=1$

$$\text{min} = (1, -9)$$

minimum at  
 $x = -2$

$$\text{min} = (-2, -8)$$

