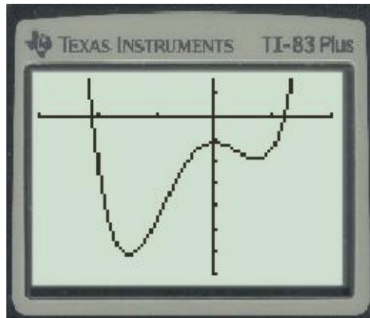


1. When comparing the absolute value functions  $f(x) = 2|x|$  and  $g(x) = -4|x|$ , we know

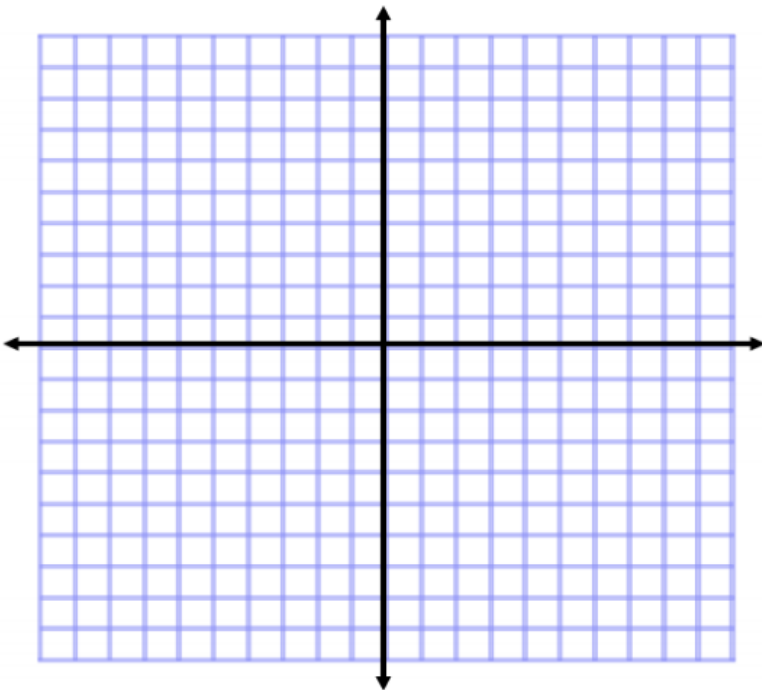
- (1) The function  $f$  is narrower than  $g$
- (2) The function  $g$  is narrower than  $f$
- (3) The function  $f$  faces downwards
- (4) The function  $g$  is not a V

2. In order to view the function  $j(x) = -17x^2 - 6 + 8x^4 + 8x^3$  the window needs to be changed. In order to view the function as the following, please fill in the window [hint: use the scale].



WINDOW  
Xmin=  
Xmax=  
Xscl=  
Ymin=  
Ymax=  
Yscl=  
Xres=

3. Graph the function  $f(x) = -2|x|$



4. If  $g(x) = 3x - 5$  and  $h(x) = \frac{7x+10}{4}$  at what point does the graph of  $g(x)$  intersect the graph of  $h(x)$ ?

(1)  $(-2, -11)$

(2)  $(2, 1)$

(3)  $(3, 4)$

(4)  $(6, 13)$

5. Use your method of choice (graphing - calculator, elimination, substitution) to solve the following system of equations:

1.  $y = -3x + 5$   
 $5x - 4y = -3$

2.  $-5x + y = -3$   
 $3x - 8y = 24$

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