

Set 3

$$f(x) = x$$

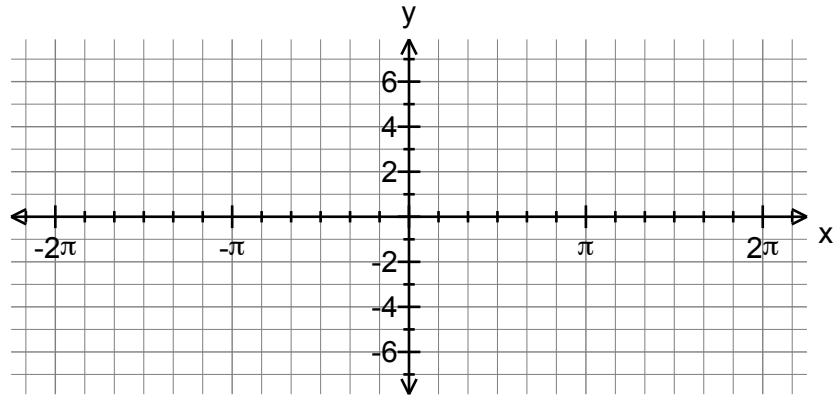
$$g(x) = \sin x$$

$$h(x) = f(x) + g(x)$$

* Add the lines

$$y = x + 1 \text{ and } y = x - 1$$

to your graph



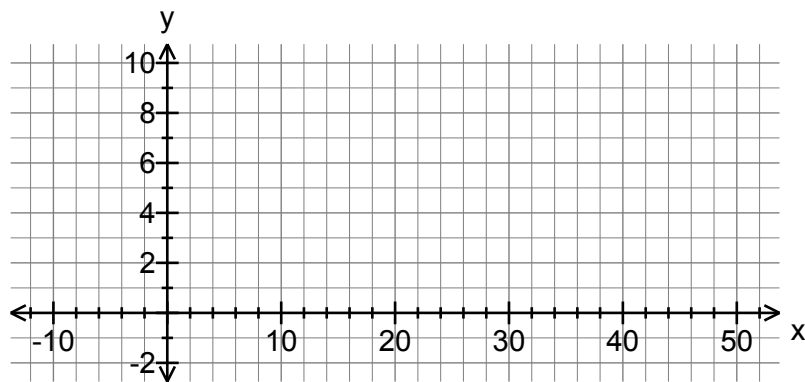
	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$							
$g(x)$							
$h(x)$							

Set 4

$$f(x) = \sqrt{x}$$

$$g(x) = \sin x$$

$$h(x) = f(x) + g(x)$$



	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$							
$g(x)$							
$h(x)$							

What have you noticed so far?

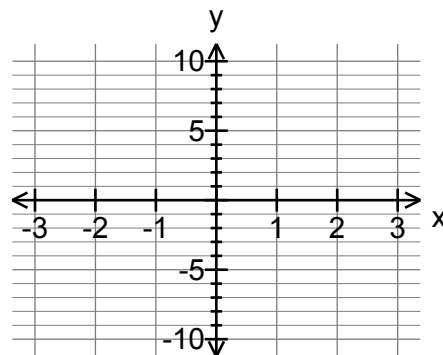
Set 5

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

$$g(x) = x$$

$$h(x) = f(x) \cdot g(x)$$

x	$f(x) =$	$g(x) =$	$h(x) =$
-2			
-1			
0			
1			
2			



	Degree	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$								
$g(x)$								
$h(x)$								

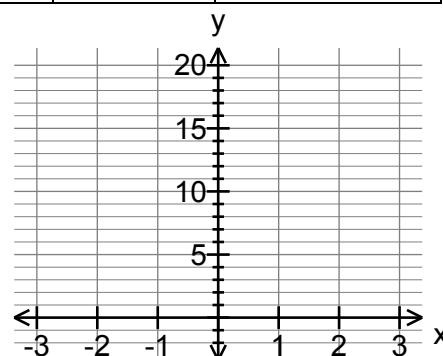
Set 6

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

$$g(x) = x^4$$

$$h(x) = f(x) \cdot g(x)$$

x	$f(x) =$	$g(x) =$	$h(x) =$
-2			
-1			
0			
1			
2			



	Degree	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$								
$g(x)$								
$h(x)$								

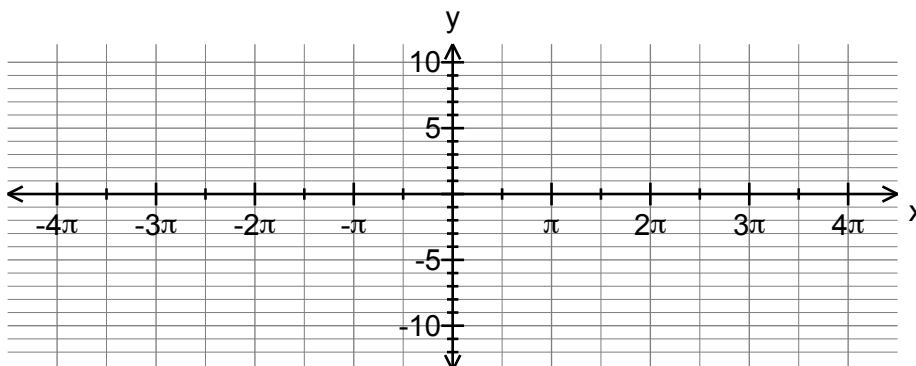
Set 7

$$f(x) = x$$

$$g(x) = \sin x$$

$$h(x) = f(x) \cdot g(x)$$

* Add the lines $y = x$ and $y = -x$ to your graph



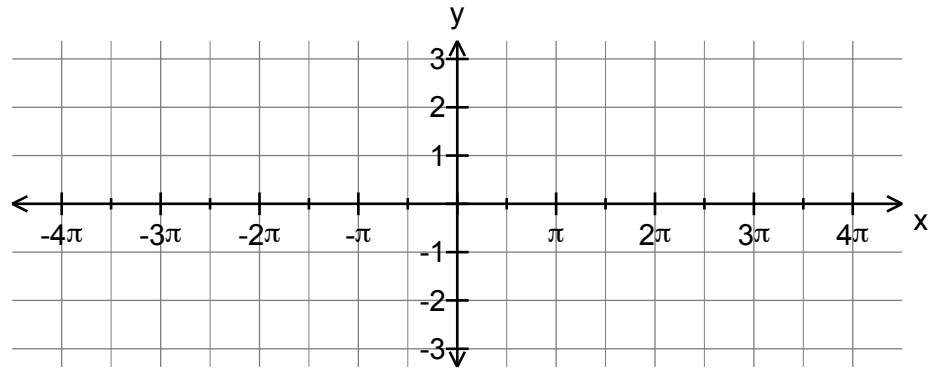
	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$							
$g(x)$							
$h(x)$							

Set 8

$$f(x) = \sin x$$

$$g(x) = x$$

$$h(x) = \frac{f(x)}{g(x)}$$



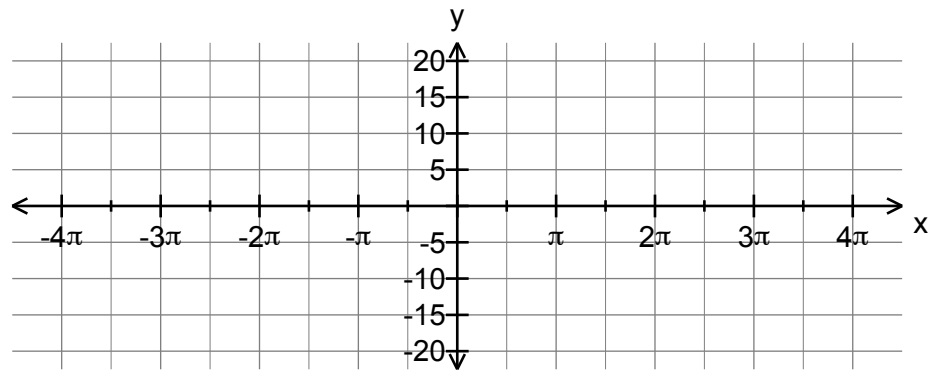
	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$							
$g(x)$							
$h(x)$							

Set 9

$$f(x) = x$$

$$g(x) = \cos x$$

$$h(x) = \frac{f(x)}{g(x)}$$



	Domain	Range	Even/Odd / Neither	Interval(s) of Increase	Interval(s) of Decrease	Max/Min Points	# of Zeros
$f(x)$							
$g(x)$							
$h(x)$							

Conclusions: