f(x) = 3x

Diagramming Function Composition f :: Number -> Number g :: Number -> Number h :: Number -> Number Consumes a number, Consumes a number, adds Consumes a number, multiplies by 3 to produce six to produce the result subtracts one to produce the result the result h(x) = x - 1

For each function composition diagrammed below, translate it into the equivalent Circle of Evaluation for Order of Operations. Then write expressions for both versions of the Circles of Evaluation, and evaluate them for x=4. The first one has been completed for you.

g(x) = x + 6

Function Composition	Order of Operations	Translate & Evaluate	
1) h g	+ 1 x 6 3 x	Composition:	h(g(f(x)))
		Operations:	((3 * x) + 6) - 1
		Evaluate for x = 4	h(g(f(4)))=17
2) g		Composition:	
		Operations:	
		Evaluate for x = 4	
3) h		Composition:	
		Operations:	
		Evaluate for x = 4	
4) f h g x		Composition:	
		Operations:	
		Evaluate for x = 4	