

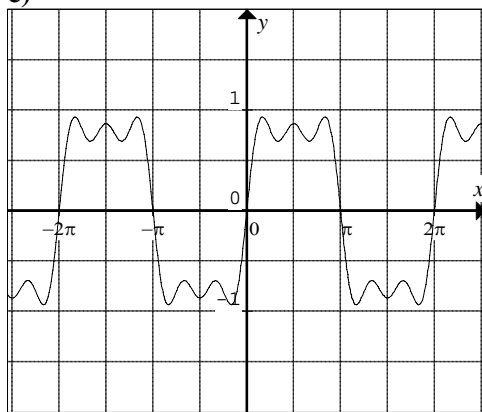
Chapter 5 Task Level 3 Sample Solution

a) $g(x)$ and $h(x)$ are horizontal and vertical compressions of the base sine function $f(x)$.

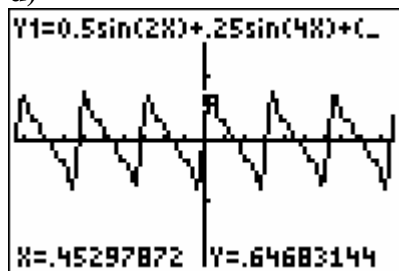
b)



c)



d)



The sum of the second, fourth and sixth harmonic has a “saw-tooth” shape rather than the “square” wave in part b).

e) The graph below has six harmonic terms. To get even more “square” it might need 20 terms.

