$$f(t) = A \sin(t + t)$$

f(t

f

f

$$f(t) = A \sin(t)$$

$$f(t) = A$$

Another Example



Another Example

Another Example

Another Example

Graph of h

$$h(t) = 1 + 10t - 5t$$

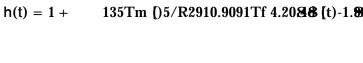
h

$h(t) = 1 + 10t - 5t^2 = -5(t - 1)$

$h(t) = 1 + 10t - 5t^2 =$

$h(t) = 1 + 10t - 5t^2 = -5(t - 1)^2 + 6$

$h(t) = 1 + 10t - 5t^2 = -5(t - 1)^2 + 6$



$$h(t) = 1 + 10t - 5t^2 = -5(t - 1)^2 + 6$$

Composition of Functions

α.

Composition of Functions



$$x - (x-1)^2 = h(x) = (x-1)^2$$

Decomposition of functions

$$h(x) = \cos^3(2x) = (\cos(2x))^3$$

Write as a composition of simpler rules

Decomposition of functions

Decomposition of functions

$$h(x) = \cos^3(2x) = (\cos(2x))^3$$

Write as a composition of simpler rules Strategy: What operations are performed?

Example: To compute h(/4):