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Scomp Task 7

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9). First Central Difference

: 1.2023

: -1.0375

b). First forward Difference

$$f'(x) : \frac{-1 \cdot f(x) + 1 \cdot f(x+h)}{h}$$

$$: \frac{-1 \cdot f(1\cdot 4) + 1 \cdot f(1\cdot 4 + 0 \cdot 2)}{0 \cdot 2}$$

$$: \frac{-f(1\cdot 4) + f(1\cdot 6)}{0 \cdot 2}$$

$$: \frac{-1 \cdot 3796 + 1 \cdot 7993}{0 \cdot 2}$$

: 1.0985

: -1.6525

c).
$$4'(x) : \frac{-1 \cdot f(x-h) + 1 \cdot f(x)}{h}$$

c).
$$f'(x) : \frac{-1 \cdot f(x-h) + (-f(x))}{h}$$
 $f''(x) : \frac{1 \cdot f(x-2h) - 2 \cdot f(x-h) + (-f(x))}{h^2}$

d). Second Backward Difference!

2 (0.2)

: unable to solve since + (2) is not declared.

: 1-2638

e). Second Backward Difference

f'(x):

$$\frac{(0.5)^{2} \cdot g(0.4) - g(0.2)}{(0.5)^{2} \cdot g(0.4) - g(0.2)}$$