

M-M3: ACT6 - Forward Difference

Due Oct 31 at 11:59pm

Points 18

Questions 3

Available Oct 24 at 12am - Oct 31 at 11:59pm

Time Limit None

Allowed Attempts 2

Instructions

Forward difference

This quiz was locked Oct 31 at 11:59pm.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	4 minutes	18 out of 18
LATEST	Attempt 2	4 minutes	18 out of 18
	Attempt 1	20 minutes	12 out of 18

❗ Correct answers are hidden.

Score for this attempt: **18** out of 18

Submitted Oct 30 at 4:05pm

This attempt took 4 minutes.

Question 1

6 / 6 pts

Find the forward difference (Δ) of the given polynomial.

$$\Delta(5x^3 + 5x^2 - 4x + 10)$$

First Order =

Answer 1:

$$15x^2 + 25x + 6$$

Question 2**6 / 6 pts**

Find the forward difference (Δ) of the given polynomial.

$$\Delta^2(4x^2 + 9x - 7)$$

First Order =

Second Order =

Answer 1:

$$8x + 13$$

Answer 2:

$$8$$

Question 3**6 / 6 pts**

Find the forward difference (Δ) of the given polynomial.

$$\Delta^3(-3x^3 + x^2)$$

First Order =

Second Order =

Third Order =

Answer 1:

$-9x^2-7x-2$

Answer 2:

$-18x-16$

Answer 3:

-18

Quiz Score: **18** out of 18