

MTH646

Partial Differential Equations

Formula Sheet

1 Chapters, 52 Formulas

VU Learning HUB

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,+1

$$, +1 = -1, +1 -2, + +1, \dots (1)$$

,+1

$$, +1 = 0.1 -1, + 0.8, + 0.1 +1, \dots (2)$$

(: , 0

$$(: , 0 = 2 \quad 0 \leq 1$$

2 < ≤1

$$2 < \leq 1 = 0.1)$$

,+1

$$, +1 = 0.1 -1, + 0.8, + 0.1 +1, \dots (2)$$

,+1

$$, +1 = -1, +1 -2, + +1, \dots (1)$$

,+1

$$, +1 = 0.05 -1, + 0.9, + 0.05 +1, \dots (2)$$

; { , 0

$$; \{ , 0 = (2) \quad 0 \leq 2$$

,+1

$$, +1 = -1, +1 -2, + +1, \dots ()$$

,+1

$$, +1 = -1, -, + +1, \dots ()$$

,+1

$$, +1 = -1, -, + +1, \dots ()$$

$$= 0, \quad 0 \leq 2, \quad > 0$$

{ , 0

$$\{ , 0 = (2) \quad 0 \leq 2$$

,+1

$$, +1 = -1, +1 -2, + +1, \dots ()$$

,+1

$$, +1 = 5 -1, -9, + 5 +1, \dots (1)$$

,+1

$$, +1 = 5 - 1, -9, + 5 + 1, \dots (1)$$

$$= 0, 0 \leq 1, > 0$$

; 0,

$$; 0, = (1,) = 0 > 0$$

{, 0

$${, 0 = 2(2) 0 \leq 1$$

,+1

$$, +1 = -1, + 1 - 2, + +1, \dots (1)$$

,+1

$$, +1 = 0.029 - 1, + 0.942, + 0.029 + 1, \dots (2)$$

{, 0

$${, 0 = 0 \leq 1$$

, -1

$$, -1 = --1, + 1 + 2, -+1, \dots (1)$$

; 0,

$$; 0, = 0 \Rightarrow 0, = 0$$

1,

$$1, = 0 \Rightarrow 4, = 0$$

$$= \Rightarrow = -1$$

{, 0

$${, 0 = 0 \leq 1$$

, -1

$$, -1 = --1, + 1 + 2, -+1, \dots (1)$$

$$2 < \leq 1,$$

$$2 < \leq 1, = 0$$

, -, -1

$$, -, -1 = -1, -2, + +1,$$

, -1

$$, -1 = -1, +1 + 2, -1,$$

, -1

$$, -1 = -0.08 -1, +1.16, -0.08 +1, \dots (2)$$

$$2 < \leq 1,$$

$$2 < \leq 1, = 0$$

; 0,

$$; 0, = (1,) = 0 > 0$$

; , 0

$$; , 0 = 0 \leq 1$$

$$9 \times 9, -1$$

$$9 \times 9, -1 = ?, = , = ?$$

; 0,

$$; 0, = (1,) = 0 > 0$$

$$= +, -1. -1, ; = 2, \dots, -1$$

, +1

$$, +1 = , +1$$

$$1 + 122$$

$$1 + 122 = 1$$

$$2 + 233$$

$$2 + 233 = 2$$

$$3 + 344$$

$$3 + 344 = 3$$

$$= -, +1. +1$$

$$11 + 12$$

$$11 + 12 = 1$$

$$21 + 22 + 23$$

$$21 + 22 + 23 = 2$$

$$32 + 33 + 34$$

$$32 + 33 + 34 = 3$$

$$43 + 44$$

$$43 + 44 = 4$$

$$= - . +1$$

$$0.51 + 0.252$$

$$0.51 + 0.252 = 0.35$$

$$0.31 + 0.802 + 0.403$$

$$0.31 + 0.802 + 0.403 = 0.77$$

$$0.252 + 3 + 0.54$$

$$0.252 + 3 + 0.54 = -0.5$$

$$, +1$$

$$, +1 = , +1$$

Good Luck!

Keep practicing!