INDIVIDUAL ASSIGNMENT «Double integral»

Variant 1

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y) = x^2 y \ , A(1,2) \quad B(1,5) \quad C(2,5) \quad D(2,2)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y) = x^2 y \ , A(1,3) \quad B(3,3) \quad C(3,5)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 2

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y) = x \ \cdot y^2, A(1,3) \quad B(1,5) \quad C(3,5) \quad D(3,3)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y) = x \ \cdot y^2, A(1,3) \quad B(1,5) \quad C(3,5)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 3

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y) = x^2 y \ , A(0,3) \quad B(0,4) \quad C(3,4) \quad D(3,3)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y) = x^2 y \ , A(0,3) \quad B(3,3) \quad C(3,5)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 4

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y) = x \ \cdot y^3, A(1,1) \quad B(1,3) \quad C(2,3) \quad D(2,1)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y) = x \ y^3, A(1,1) \quad B(3,1) \quad C(3,3)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 5

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^2y\ ,A(1,1)\quad B(1,4)\quad C(3,4)\quad D(3,1)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^2y\ ,A(1,1)\quad B(4,1)\quad C(4,4)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 6

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^2y^2,A(0,2)\quad B(0,4)\quad C(3,4)\quad D(3,2)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^2y^2,A(0,0)\quad B(0,2)\quad C(2,6)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 7

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^3y\ ,A(1,1)\quad B(1,2)\quad C(4,2)\quad D(4,1)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^3y\ ,A(1,1)\quad B(4,1)\quad C(4,5)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 8

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^3y^2,A(0,2)\quad B(0,4)\quad C(2,4)\quad D(2,2)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^3y^2,A(0,2)\quad B(2,2)\quad C(2,4)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 9

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^2y^3, A(0,1) \quad B(0,2) \quad C(3,2) \quad D(3,1)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^2y^3, A(0,1) \quad B(3,1) \quad C(3,2)$$

INDIVIDUAL ASSIGNMENT «Double integral»

Variant 10

Problem 1. Evaluate double integral of a function *f(x,y)* in a rectangular region ABCD

$$f(x,y)=x^4y \ , A(0,1) \quad B(0,2) \quad C(2,2) \quad D(2,1)$$

Problem 2. Evaluate double integral of a function *f(x,y)* in a triangular region ABC

$$f(x,y)=x^4y \ , A(0,1) \quad B(2,1) \quad C(2,2)$$