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1		28	4	4		20
2		14	2	2		10

3		14	2	2		10
4		14	2	2		10
5		14	2	2		10
6		21	4	2		15
7		12		2		10
8		27				27
		144	16	16		112

3 _____

1		20	2	2		16
2		24	4	2		18
3		20	2	2		16
4		20	2	2		16
5		20	2	2		16
6		20	2	2		16

7		14	2	2		10
8		6		2		4
		144	16	16		112

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: 1, 2, 3.

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$f(z)$.

$f(z)$

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: 1, 2, 4.
: 1.

: 2, 4, 5.
: 1, 3.

: 2, 5.
: 1.

: 2, 5.

: 1.

: 2, 4, 5.

: 1, 3.

1.

$$w = z^3 - 10|z-1|^2$$

-

$$u = x^4 - y^4 + 5xy$$

-

3.

$$f(z) = \sin z + \bar{z} \cos z$$

4.

$$f(z) = 100(1 - z\bar{z})$$

5.

$$f(z)$$

G

$$f(z) = A \cdot (e^{i\alpha} z + \bar{z}) + B; \quad f(z) = A \cdot (z - c)^\gamma (\bar{z} - \bar{c}) + B,$$

$A, B, c, \alpha, \gamma -$

$$\text{Im } \alpha = 0, \quad |\gamma| = 1.$$

1.

-4.

5.

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7.

8.

2.

: 3, 4.

: 3.

: 1, 3, 4.

: 2, 3.

Занятие № 3.

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: 3, 4.

: 2, 3.

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: 3.

: 4.

2.

3.

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: 2, 3, 4, 5.

: 1, 3, 4.

$$\varphi(t) + \int_L \left(\frac{2t}{\tau} + 5\tau^{-2} \right) \varphi(\tau) d\tau = 3t + 1, \quad L = \{t : |t| = 1\}.$$

$$t(t-2)\varphi(t) + \frac{t^2 - 6t + 8}{\pi i} \int_L \frac{\varphi(\tau)}{\tau - t} d\tau = \frac{1}{t} \quad L = \{t : |t| = 1\}.$$

3.

$$t\varphi(t) - \frac{t-2}{\pi i} \int_L \frac{\varphi(\tau)}{\tau - t} d\tau - \int_L (\tau - t)\varphi(\tau) d\tau = 2(t^2 + 1), \quad L = \{t : |t-1| = 2\}.$$

$F(z)$

$$\frac{\partial^2 F(z)}{\partial \bar{z}^2} - 3 \frac{\partial F(z)}{\partial \bar{z}} + 4F(z) = 0.$$

5.

$A_2(G)$

G

		*)
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2		

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1		5
2		4
3		3
4		0-2

2

$$w = z^3 - 10|z-1|^2$$

$$u = x^4 - y^4 + 5xy$$

$$f(z) = \sin z + \bar{z} \cos z$$

$$f(z) = 100(1 - z\bar{z})$$

$f(z)$

$G,$

$$f(z) = A \cdot (e^{i\alpha} z + \bar{z}) + B; \quad f(z) = A \cdot (z - c)^\gamma (\bar{z} - \bar{c}) + B,$$

$A, B, c, \alpha, \gamma -$

$$\operatorname{Im} \alpha = 0, \quad |\gamma| = 1.$$

1.

		*)
1		

(*)

2.

1		4,75-5
2		3,75-4,5
3		3-3,5
4		

3

$$\varphi(t) + \int_L \left(\frac{2t}{\tau} + 5\tau^{-2} \right) \varphi(\tau) d\tau = 3t + 1, \quad L = \{t : |t| = 1\}.$$

$$t(t-2)\varphi(t) + \frac{t^2 - 6t + 8}{\pi i} \int_L \frac{\varphi(\tau)}{\tau - t} d\tau = \frac{1}{t} \quad L = \{t : |t| = 1\}.$$

3.

$$t\varphi(t) - \frac{t-2}{\pi i} \int_L \frac{\varphi(\tau)}{\tau - t} d\tau - \int_L (\tau - t)\varphi(\tau) d\tau = 2(t^2 + 1), \quad L = \{t : |t-1| = 2\}.$$

$F(z)$

$$\frac{\partial^2 F(z)}{\partial \bar{z}^2} - 3 \frac{\partial F(z)}{\partial \bar{z}} + 4F(z) = 0.$$

5.

$A_2(G)$

G

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1		4,75-5
2		3,75-4,5
3		3-3,5
4		

2

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17.

18.

$$k$$

$$k$$

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3.

$$w = z^3 - k|z-1|^2$$

4.

$$u = x^4 - y^4 + kxy$$

5.

$$|z-i| = k^2.$$

1.

1		

2.

1		4,75-5
2		3,75-4,5
3		3-3,5
4		

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