

МАТЕМАТИКА 1

3.09.2013.

1. $z^3 - (1+2i)^2 - \frac{1-i}{1+i} + i^5 - i^{16} = 0, (z \in \mathbb{C}).$

2.
$$\begin{cases} 2x - y + z - 3t = -1 \\ x - y + 3z + t = 4 \\ -2x - 3y + z + t = -3 \\ 3x - 2y + 4z - 2t = 3. \end{cases}$$

3.
$$A = \begin{pmatrix} -2 & -3 & -3 \\ -1 & 0 & -1 \\ 5 & 5 & 6 \end{pmatrix}.$$

4.
$$A(3, 0, 2), B(-1, 0, 1), C(2, 0, 3) \parallel D(0, y, 0).$$

5.
$$f(x) = \sqrt[3]{x^3 - 2x^2}.$$