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**Приложение 2**

**Самостоятельная работа (20 вариантов)**

Задания №1-3 –решить неравенство

Задание №2 -найти область определения выражения

|  |  |
| --- | --- |
| 1. $x^{2}-2x+7\geq 0$ В-1
2. $5x^{2}+34x+24<0$
3. $2x^{2}+7x+3>0$
4. $\sqrt{10x^{2}-11x-6}$
 | 1. $x^{2}-2x+>0$ В-2
2. $9x^{2}+26x-3<0$
3. $2x^{2}-x-1\leq 0$
4. $\sqrt{x^{2}-18x+77}$
 |
| 1. $x^{2}-2x+7\leq 0$ В-3
2. $4x^{2}-4x-3>0$
3. $-8x^{2}+7x-1<0$
4. $\sqrt{x^{2}+9x-36}$
 | 1. $x^{2}-2x+7<0$ В-4
2. $5x^{2}+42x+16<0$
3. $4x^{2}+16x+15\geq 0$
4. $\sqrt{2x^{2}+7x-9}$
 |
| 1. $x^{2}-4x+4>0$ В-5
2. $-8x^{2}-10x+3\geq 0$
3. $5x^{2}+42x+16<0$
4. $\frac{3}{\sqrt{x^{2}+9x-36}}$
 | 1. $x^{2}-4x+4\geq 0$ В-6
2. $4x^{2}-4x-3\leq 0$
3. $9x^{2}+15x-14>0$
4. $\frac{5-x}{\sqrt{2x^{2}+7x-9}}$
 |
| 1. $x^{2}-4x+4<0$ В-7
2. $2x^{2}-3x+10<0$
3. $12x^{2}+8x+1\leq 0$
4. $\frac{2}{\sqrt{10x^{2}-11x-6}}$
 | 1. $x^{2}-4x+4\leq 0$ В-8
2. $2x^{2}-5x+3>0$
3. $3x^{2}+5x-8\geq 0$
4. $\frac{x}{\sqrt{x^{2}-18x+77}}$
 |
| 1. $-x^{2}+4x-4>0$ В-9
2. $12x^{2}+20x-25\geq 0$
3. $5x^{2}-8x-4<0$
4. $\sqrt{-x^{2}-x+2}$
 | 1. $-x^{2}+4x-4\geq 0$ В-10
2. $3x^{2}-5x-2\leq 0$
3. $6x^{2}-7x+1>0$
4. $\sqrt{-2x^{2}-3x+14}$
 |
| 1. $-x^{2}+4x-4<0$ В-11
2. $6x^{2}+x-1<0$
3. $5x^{2}+2x-3\leq 0$
4. $\sqrt{25-x^{2}}$
 | 1. $-x^{2}+4x-4\leq 0$ В-12
2. $5x^{2}-3x-2>0$
3. $25x^{2}-60x+27\geq 0$
4. $\sqrt{x^{2}-9}$
 |
| 1. $-x^{2}+2x-7>0$ В-13
2. $5x^{2}-8x+3\geq 0$
3. $10x^{2}+21x+8<0$
4. $\frac{1}{\sqrt{-x^{2}-x+2}}$
 | 1. $-x^{2}+2x-7\geq 0$ В-14
2. $25x^{2}-15x+2\leq 0$
3. $-2x^{2}+3x-1>0$
4. $\frac{x}{\sqrt{14-2x^{2}-3x}}$
 |
| 1. $-x^{2}+2x-7<0$ В-15
2. $10x^{2}+37x+30>0$
3. $2x^{2}+5x+3\leq 0$
4. $\frac{5}{\sqrt{25-x^{2}}}$
 | 1. $-x^{2}+2x-7\leq 0$ В-16
2. $2x^{2}+x-1<0$
3. $8x^{2}+10x-3\geq 0$
4. $\frac{2}{\sqrt{x^{2}-9}}$
 |
| 1. $x^{2}+2x-3>0$ В-17
2. $-2x^{2}+7x-3\geq 0$
3. $5x^{2}-34x+24<0$
4. $\frac{1}{x\sqrt{x^{2}-2x+1}}$
 | 1. $x^{2}+2x-3\geq 0$ В-18
2. $100x^{2}-100x+9\leq 0$
3. $5x^{2}+3x-2>0$
4. $\frac{2x}{\sqrt{36-4x^{2}}}$
 |
| 1. $x^{2}+2x-3<0$ В-19
2. $5x^{2}-42x+16>0$
3. $25x^{2}+25x+6\leq 0$
4. $\frac{5-x}{\sqrt{\left(x+4\right)(x+9)}}$
 | 1. $x^{2}+2x-3\leq 0$ В-20
2. $5x^{2}+8x-4<0$
3. $100x^{2}-100x+21\geq 0$
4. $\frac{\left|x-2\right|}{\sqrt{\left(3-x\right)(3+x)}}$
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