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| **1вариант** | **2 вариант** |
| 1. log1(7𝑥 − 3) = log1(5𝑥 + 11)7 7 | 1.log11(4 − 𝑥) = log11(6 + 𝑥) |
| 2. log8(5 − 𝑥) = 2 | 2. log1(5𝑥 + 1) = −24 |
| 3. log1(4 + 5𝑥) = −23 | 3.log7 𝑥 = log7 10 − 2log7 √5 |
| 4.log3 𝑥 = 2log3 6 + log3 5 | 4. log4(15 − 3𝑥) = 3 |
| 5. log3(𝑥 + 1) + log3(𝑥 + 3) = 1 | 5.log2(𝑥2 + 6𝑥 − 3) − log2(𝑥 + 3) = 2 |
| **3 вариант** | **4 вариант** |
| 1. log2(2 − 9𝑥) = log2(27 − 4𝑥)5 5 | 1. log0,7(4 − 7𝑥) = log0.7(8𝑥 − 11) |
| 2. log9(7 − 2𝑥) = 2 | 2. log7(4𝑥 − 11) = 2 |
| 3. log1(3 − 10𝑥) = −26 | 3.log 4𝑥 = 3log 3 + log 84 4 4 |
| 4.log8 𝑥 = 3log8 5 − log8 10 | 4. log0,2(5𝑥 − 10) = −2 |
|  5. log 1 (𝑥 − 1) + log 1 (𝑥 + 2) = −110 10 |  5.log2(𝑥 − 4) + log2(2𝑥 − 1) = log2 9 |
| **5 вариант** | **6 вариант** |
| 1. log1(7𝑥 − 3) = log1(5𝑥 + 11)7 7 | 1. log0,6(6 − 0,5𝑥) = log0,6(2,5𝑥 − 3) |
| 2. log3(1 + 𝑥) = 2 | 2. log2(7 + 2𝑥) = 3 |
| 3. log1(3 − 2𝑥) = −43 | 3. log1(3 − 𝑥) = −35 |
| 4.log7(3 − 𝑥) = 2log7 4 | 4.log6( 𝑥 + 2) = log6 15 − log6 3 |
| 5. lg(3𝑥2 + 12𝑥 + 19) − lg(3𝑥 + 4) = 1 | 5. log5( 𝑥 + 1) + log5(𝑥 + 5) = 1 |
| **7 вариант** | **8 вариант** |
| 1.log2(𝑥 + 3) = log2(3𝑥 − 15) | 1.log11(𝑥2 − 1) = log11 3 |
| 2. log1(10 − 𝑥) = −33 | 2. log1(2𝑥 − 6) = −52 |
| 3.log 𝑥 = log 20 − 3log 3√413 13 13 | 3.log7(1 − 𝑥) = log7 8 − 4log7 √2 |
| 4. log6(3𝑥 − 8) = 0 | 4. log2(3𝑥2 − 3𝑥 + 4) = 2 |
| 5. lg(3𝑥2 − 17𝑥 + 2) − lg(𝑥2 − 6𝑥 + 1) = lg 2 |  5.lg(𝑥 − √15) + lg(𝑥 + √15) = 1 |
| Ответы:

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| **№** | **1 в** | **2 в** | **3 в** | **4 в** | **5 в** | **6 в** | **7 в** | **8 в** |
| **1** | 7 | -1 | -5 | ∅ | 7 | 3 | 9 | ±2 |
| **2** | -59 | 3 | -37 | 15 | 8 | 0,5 | -17 | 19 |
| **3** | 1 | 2 | -3,3 | 54 | -39 | -122 | 5 | -1 |
| **4** | 180 | -1613 | 12,5 | 7 | -13 | 3 | 3 | 0;1 |
| **5** | 0 | 3 | 3 | 5 | 7;-1 | 0 | 0 | 5 |
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