Конспект для учащихся

**«Компьютерный учитель №1»**

**Тригонометрические уравнения с отбором корней**

**(по материалам ЕГЭ-2011, задание С1)**

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|  | **РЕШИТЬ УРАВНЕНИЯ** $при a=2;b=-3\sqrt{3}; c=3$  |

Структура заданий для самостоятельной работе по работе с

 **«Компьютерным учителем №1»**

**Тригонометрические уравнения с отбором корней**

**(по материалам ЕГЭ-2011, задание С1)**

**Самостоятельная работа**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1. $\left(acos^{2}x+bcosx+c\right)\sqrt{sinx}=0$
2. $\left(acos^{2}x+bcosx+c\right)\sqrt{-sinx}=0$
3. $\left(asin^{2}x+bcsinx+c\right)\sqrt{cosx}=0$
4. $\left(asin^{2}x+bcsinx+c\right)\sqrt{-cosx}=0$
5. $\left(acos^{2}x+bcosx+c\right)log\_{7}\left(sinx\right)=0$
6. $\left(acos^{2}x+bcosx+c\right)log\_{7}\left(-sinx\right)=0$
7. $\left(asin^{2}x+bsinx+c\right)log\_{7}\left(cosx\right)=0$
8. $\left(asin^{2}x+bsinx+c\right)log\_{7}\left(-cosx\right)=0$
9. $\frac{acos^{2}x+bcosx+c}{log\_{7}\left(sinx\right)} =0$
10. $\frac{acos^{2}x+bcosx+c}{log\_{7}\left(-sinx\right)} =0$
11. $\frac{asin^{2}x+bsinx+c}{log\_{7}\left(cosx\right)} =0$
12. $\frac{asin^{2}x+bsinx+c}{log\_{7}\left(-cosx\right)} =0$
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|   | **a=** | **b=** | **c=** |
| **вариант 1**  | 6 | -11 | 4 |
| **вариант 2** | 6 | 5 | -4 |
| **вариант 3** | 6 | 11 | 4 |
| **вариант 4** | 6 | -5 | -4 |
| **вариант 5** | 2 | -5 | 2 |
| **вариант 6** | 2 | -3 | -2 |
| **вариант 7** | 2 | 5 | 2 |
| **вариант 8** | 2 | 3 | -2 |
| **вариант 9** | 4 | -12 | 5 |
| **вариант 10** | 4 | 8 | -5 |
| **вариант 11** | 4 | 12 | 5 |
| **вариант 12** | 4 | -8 | -5 |
| **вариант 13** | 6 | -13 | 5 |
| **вариант 14** | 6 | 7 | -5 |
| **вариант 15** | 6 | 13 | 5 |
| **вариант 16** | 6 | -7 | -5 |
| **вариант 17** | 4 | 8 | 3 |
| **вариант 18** | 4 | -4 | -3 |
| **вариант 19** | 4 | -8 | 3 |
| **вариант 20** | 4 | 4 | -3 |
| **вариант 21** | 2 | 11 | 5 |
| **вариант 22** | 2 | 9 | -5 |
| **вариант 23** | 2 | -11 | 5 |
| **вариант 24** | 2 | -9 | -5 |
| **вариант 25** | 6 | -17 | 7 |
| **вариант 26** | 6 | 11 | -7 |
| **вариант 27** | 6 | 17 | 7 |
| **вариант 28** | 6 | -11 | -7 |

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| Варианты  | 1=Mod (4) | 2=Mod (4) | 3=Mod (4) | 4=Mod (4) |
| Структуры  | 1-6-11 | 3-8-9 | 2-7-12 | 4-5-10 |

ВАРИАНТ 1

1. $\left(acos^{2}x+bcosx+c\right)\sqrt{sinx}=0$
2. $\left(acos^{2}x+bcosx+c\right)log\_{7}\left(-sinx\right)=0$
3. $\frac{asin^{2}x+bsinx+c}{log\_{7}\left(cosx\right)} =0$

ВАРИАНТ 2

1. $\left(asin^{2}x+bcsinx+c\right)\sqrt{cosx}=0$
2. $\left(asin^{2}x+bsinx+c\right)log\_{7}\left(-cosx\right)=0$
3. $\frac{acos^{2}x+bcosx+c}{log\_{7}\left(sinx\right)} =0$

ВАРИАНТ 3

1. $\left(acos^{2}x+bcosx+c\right)\sqrt{-sinx}=0$
2. $\left(asin^{2}x+bsinx+c\right)log\_{7}\left(cosx\right)=0$
3. $\frac{asin^{2}x+bsinx+c}{log\_{7}\left(-cosx\right)} =0$

ВАРИАНТ 4

1. $\left(asin^{2}x+bcsinx+c\right)\sqrt{-cosx}=0$
2. $\left(acos^{2}x+bcosx+c\right)log\_{7}\left(sinx\right)=0$
3. $\frac{acos^{2}x+bcosx+c}{log\_{7}\left(-sinx\right)} =0$