*Приложение 3*

**Вариант 1**

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| **(3 балла)** | sin3x - cos3x = 0 | х= π/12 +π/3 n, nZ (АРИСТ)  х= 3π/4 +3πn, nZ (ЕВК)  х= π/18 +π/3 n, nZ (ДЕК)  х= π/18 +2πn, nZ (ЭЙ) |
| **(4 балла)** | sin² x - 5 sinx cosx + 4cos²x = 0 | х= arctg4+ π n, nZ х= π/4+πn, nZ (АРИСТ)  х=4 arctg4+ 4πn, nZ х= π+4π n, nZ (ДЕК)  х=1/4 arctg4+ π/4 n, nZ х= π/8+π/8 n, nZ (ЕВК)  х=1/4 arctg2+ π/4 n, nZ х= π/12+π/4 n, nZ (ЭЙ) |
| **(5 баллов)** | **3**sin²x – sinx cosx = 2 | х= arctg2+ 4πn, nZ х=-π/4+ 2πn, n Z (ЕВК)  х=5 arctg2+ 5π n, nZ х=-π/4+ πn/4, nZ (ЭЙ)  х= arctg2+ πn, nZ х=-π/4+ πn, nZ (АРИСТ)  х=1/5 arctg4+ π/5 n, nZ х=-π/20+ 5πn, nZ (ДЕК) |

**Вариант 2**

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| **(3 балла)** | 5 sin2x +6 cos2x = 0 | х= -1/2arctg 6/5 +π/2 n, nZ (ОТЕЛЬ)  х= -2arctg 6/5 +2πn, nZ (ЛИД)  х= 1/2arctg 6/5 +π n, nZ (АРТ)  х= -1/2arctg 5/6 +π/2 n, nZ (ЛЕР) |
| **(4 балла)** | sin²x - 4 sinx cosx - 5cos²x = 0 | х= arctg5+ πn, nZ х=- π/4 +πn, nZ (ОТЕЛЬ)  х=1/4 arctg5+ π/4 n, nZ х=- π/32 +π/4 n, nZ (АРТ)  х=8 arctg5+ 8π n, nZ х=- π/4 +8πn, nZ (ЛИД)  х=-1/8 arctg4+ π/8 n, nZ х=- π/4 +π/8n, nZ (ЛЕР) |
| **(5 баллов)** | **4**sin²x +2sinx cosx = 3 | х=2аrctg3+πn,nZ  х=π+4 πn, nZ (ЛИД)  х=-2аrctg3+πn,nZ  х=π/2+ πn, nZ (ЛЕР)  х=-аrctg3+πn,nZ  х=π/4+πn,nZ (ОТЕЛЬ)  х=-4аrctg6+2πn,nZ  х=π/3+2 πn, nZ (АРТ) |