**1 А1.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**2 А2.** Упростите выражение  и найдите его значение при  *а=*3.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 3 | 2) |  | 3) | 9 | 4) | 27 |

**3 А1.**Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 8 | 2) | 6 | 3) | 4 | 4) | 12 |

**4 А1.**Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | – 4 | 2) | 0 | 3) | 6 | 4) | 4 |

**5 А1.** Найдите значение выражения  при .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 60 | 2) | 30 | 3) | 20 | 4) | 40 |

**6 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | ‑ 28,5 | 2) |  | 3) | ‑ 3 | 4) | ‑ 7 |

**7 А2.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**8 А1.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**9 А2.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 60 | 2) | 30 | 3) | 20 | 4) | 40 |

**10 А1.** Упростите выражение  и найдите его значение при 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) | 2 | 4) | 4 |

**11 А2.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**12 А1.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**13 А2.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 5 | 2) | 2 | 3) | 6 | 4) | 1 |

**14 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 18 | 2) | 9 | 3) | 6 | 4) | 12 |

**15 А2.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**16 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) | 2 | 3) | 4 | 4) |  |

**17 А2.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**18 А1.** Упростите выражение .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) |  | 2) |  | 3) |  | 4) |  |

**19 А2.** Вычислите .

**20 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 2 | 2) | 6 | 3) | 1,5 | 4) | 0,75 |

**21 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 20 | 2) | 40 | 3) | 80 | 4) | 10 |

**22 А1.** Вычислите .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 0,6 | 2) | 9 | 3) | 18 | 4) | 6 |

**23 А1.** Найдите значение выражения  при .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | 16 | 2) | ‑ 8 | 3) |  | 4) |  |