Задание №8 (ОГЭ) Степени и корни

Вариант 1. Найти значение выражения

|  |  |  |  |
| --- | --- | --- | --- |
| № п/п | Условие | Решение | Ответ  |
|  | $$\frac{9^{-6}\*9^{15}}{9^{7}}$$ |  |  |
|  | $$\frac{\left(8^{3}\right)^{-7}}{8^{-23}}$$ |  |  |
|  | $$2^{-9}\*\left(2^{7}\right)^{2}$$ |  |  |
|  | $$\frac{\left(4\*6\right)^{5}}{4^{3}\*6^{4}}$$ |  |  |
|  | $$\frac{6^{12}\*11^{10}}{66^{10}}$$ |  |  |
|  | $$\frac{2^{5}}{4}$$ |  |  |
|  | $$\frac{1}{2^{-11}}\*\frac{1}{2^{7}}$$ |  |  |
|  | $$\sqrt{9^{3}}$$ |  |  |
|  | $$\frac{\sqrt{65}\*\sqrt{13}}{\sqrt{5}}$$ |  |  |
|  | $$\sqrt{11}\*\sqrt{18}\*\sqrt{22}$$ |  |  |
|  | $$\frac{72}{\left(2\sqrt{3}\right)^{2}}$$ |  |  |
|  | $$9\sqrt{7}\*2\sqrt{2}\*\sqrt{14}$$ |  |  |
|  | $$\left(\sqrt{27}+\sqrt{3}\right)\*\sqrt{3}$$ |  |  |
|  | $$\left(\sqrt{19}-\sqrt{2}\right)\left(\sqrt{19}+\sqrt{2}\right)$$ |  |  |
|  | $$\left(\sqrt{17}+2\right)^{2}-4\sqrt{17}$$ |  |  |

Задание №8 (ОГЭ) Степени и корни

Вариант 2. Найти значение выражения

|  |  |  |  |
| --- | --- | --- | --- |
| № п/п | Условие | Решение | Ответ |
|  | $$\frac{11^{-3}\*11^{12}}{11^{8}}$$ |  |  |
|  | $$\frac{\left(3^{7}\right)^{-2}}{3^{-16}}$$ |  |  |
|  | $$2^{-7}\*\left(2^{4}\right)^{3}$$ |  |  |
|  | $$\frac{\left(2\*5\right)^{6}}{2^{4}\*5^{5}}$$ |  |  |
|  | $$\frac{5^{9}\*9^{6}}{45^{6}}$$ |  |  |
|  | $$\frac{3^{7}}{81}$$ |  |  |
|  | $$\frac{1}{4^{-10}}\*\frac{1}{4^{9}}$$ |  |  |
|  | $$\sqrt{6^{4}}$$ |  |  |
|  | $$\frac{\sqrt{21}\*\sqrt{14}}{\sqrt{6}}$$ |  |  |
|  | $$\sqrt{7}\*\sqrt{18}\*\sqrt{14}$$ |  |  |
|  | $$\frac{\left(2\sqrt{5}\right)^{2}}{160}$$ |  |  |
|  | $$10\sqrt{7}\*2\sqrt{6}\*\sqrt{42}$$ |  |  |
|  | $$\left(\sqrt{20}+\sqrt{5}\right)\*\sqrt{5}$$ |  |  |
|  | $$\left(\sqrt{7}-\sqrt{2}\right)\left(\sqrt{7}+\sqrt{2}\right)$$ |  |  |
|  | $$\left(\sqrt{5}+9\right)^{2}-18\sqrt{5}$$ |  |  |

Ответы

|  |  |  |
| --- | --- | --- |
| № | Вариант 1 | Вариант 2 |
|  | 81 | 11 |
|  | 64 | 9 |
|  | 32 | 32 |
|  | 96 | 20 |
|  | 36 | 125 |
|  | 8 | 27 |
|  | 16 | 4 |
|  | 27 | 36 |
|  | 13 | 7 |
|  | 66 | 42 |
|  | 6 | 0,125 |
|  | 252 | 840 |
|  | 12 | 15 |
|  | 17 | 5 |
|  | 21 | 86 |