ФИ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Свойства степени с натуральным показателем**

1. Представьте в виде степени выражение:

|  |  |  |
| --- | --- | --- |
| $$x^{13}xx^{4}= $$ | $$(m^{4})^{9}=$$ | $$(t^{2})^{5}= $$ |
| $$3^{3}\*3^{14}\*3=$$ | $$a^{6}b^{6}=$$ | $$y^{2}yy^{5}y^{9}= $$ |
| $$y^{15}: y^{3}=$$ | $$4^{3}x^{3}=$$ | $$m^{9}:m^{9}= $$ |
| $$0,4^{21} : 0,4^{7}=$$ | $$(b^{8})^{7}=$$ | $$(\frac{x}{y})^{7}=$$ |

1. Упростите выражение:

|  |  |
| --- | --- |
| $$(b^{3})^{4}\*b^{5}=$$ | $$(y^{2}\*y^{8})^{4}=$$ |
| $$c^{6}\*(c^{2})^{5} =$$ | $$(p\*p^{5})^{9}= $$ |
| $$\left(x^{3}\right)^{7}\*\left(x^{7}\right)^{3}=$$ | $$\frac{x^{10}\*x^{5}}{(x^{3})^{4}}=$$ |

1. Найдите значение выражения:

|  |  |
| --- | --- |
| $$\frac{6^{26}}{6^{23}}=$$ | $$\frac{2^{63}}{2^{45}\*2^{14}}=$$ |
| $$\frac{0,2^{42}}{0,2^{38}}=$$ | $$\frac{5^{17}\*5^{39}}{5^{55}}=$$ |
| $$\frac{\left(-0,1\right)^{31}}{\left(-0,1\right)^{26}}= $$ | $$5^{3}\*2^{3}=$$ |
| $$\frac{\left(-1\frac{1}{2}\right)^{17}}{\left(-1\frac{1}{2}\right)^{15}}=$$ | $$\frac{(3^{5})^{4}\*3^{11}}{3^{29}}=$$ |
| $$5^{4}\*5^{0}=$$ | $$\frac{2^{3}\*(2^{12})^{5}}{2^{56}\*2^{4}}=$$ |

1. Представьте в виде степени несколькими способами:

|  |
| --- |
| $$x^{18}=$$ |
| $$y^{21}=$$ |
| $$b^{41}=$$ |