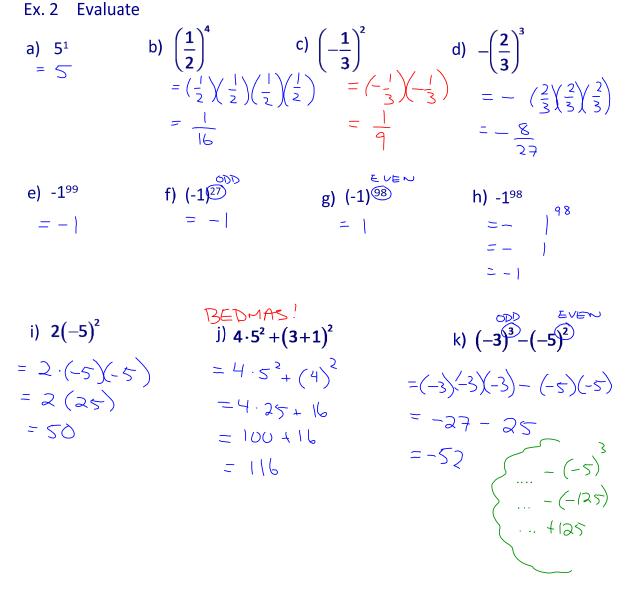
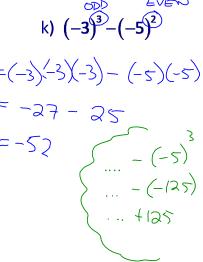


1.8 Exponents.notebook





Ex. 3 Write as single power.

a)
$$(2^{3})(2^{4})$$

= $2 \cdot 2 \cdot 2$
= 2^{7}
b) $(5^{4})(5^{3})$
= 5^{7}

c) (-2)⁵(-2)^{*} __ (-2)^{*}

Ex. 4 Write as a single power.

To divide powers with the same base, subtract the exponents.

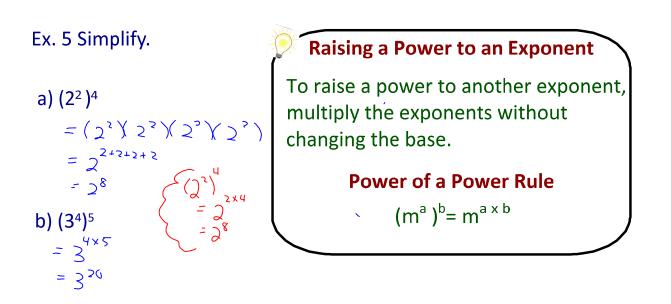
The Quotient Rule

 $m^a \div m^b = m^{a-b}, m \neq 0$

c)
$$\frac{(-2)^4}{(-2)^3} = (-2)^3$$

= $(-2)^3$
= $(-2)^3$

d)
$$\frac{1.5^{16}}{(1.5^2)(1.5^3)}$$
$$= \frac{1.5^{16}}{1.5^5}$$
$$= 1.5^{16-5}$$
$$= 1.5^{11}$$



c) -
$$(5^3)^2$$

= - $(5^3)(5^3)$
= - 5^6

Exponent Laws



