

Name : _____

Exponents

T2L2S1

Evaluate using prime factorization.

1) $-1331 \cdot \frac{36}{121}$

2) $\frac{500a^{-3}}{125a^{-3}} \cdot 9a^2$

3) $\frac{49}{m^2} \div 7m^2$

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5) $\frac{343y^4}{686x^3} \cdot \frac{36x^4}{y^3}$

7) $\frac{729}{9p^2} \div \frac{81}{p^4q^2}$

8) $216v^{-7} \div \frac{18}{v^3}$

Exponents

Evaluate using prime factorization.

1) $-1331 \cdot \frac{36}{121}$

-396

2) $\frac{500a^{-3}}{125a^{-3}} \cdot 9a^2$

$36a^2$

3) $\frac{49}{m^2} \div 7m^2$

7

5) $\frac{343y^4}{686x^3} \cdot \frac{36x^4}{y^3}$

$18xy$

7) $\frac{729}{9p^2} \div \frac{81}{p^4q^2}$

p^2q^2

8) $216v^{-7} \div \frac{18}{v^3}$

$12v^{-4}$

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