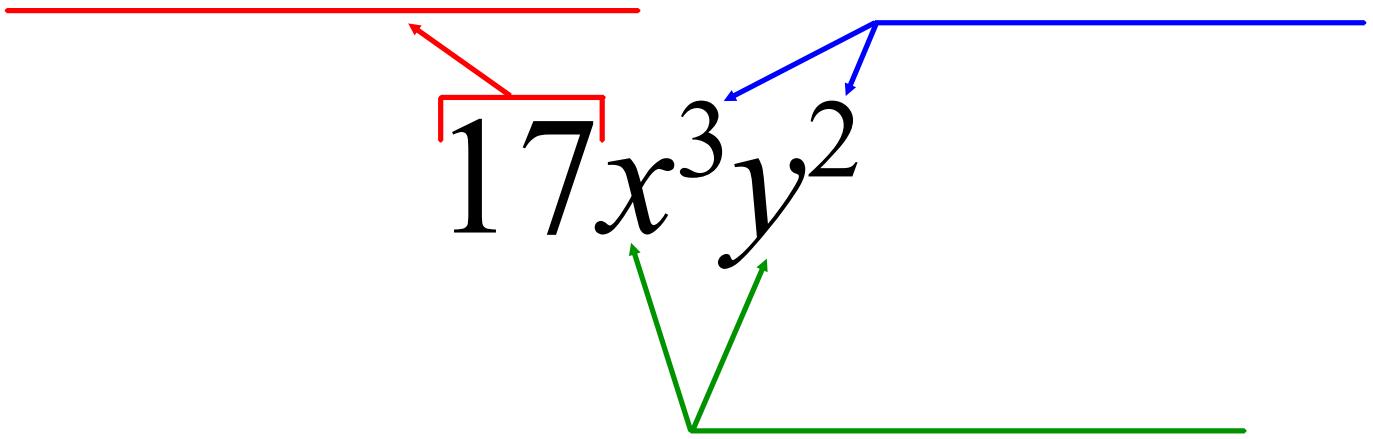


Algebra II
4-2
Laws of Exponents



Laws of Exponents

1) $x^3 \cdot x^4 = \underline{\hspace{2cm}}$

2) $(-x^3)^4 = \underline{\hspace{2cm}}$

3) $(3x^4y^5)^2 = \underline{\hspace{2cm}}$

4) $(x + y)^2 = \underline{\hspace{2cm}}$

5) $(3^3 \cdot 2^4)^2 = \underline{\hspace{2cm}}$

6) $-2^2 = \underline{\hspace{2cm}}$

7) $(-2)^2 = \underline{\hspace{2cm}}$

Simplify. (pg 173)

$$1) \ 3z^2 \cdot 2z^3$$

$$11) \ (-3pq^4r^2)^3$$

$$21) \ z^{n-2} \cdot z^{n+2}$$

$$27) \ t(t^{n-1} + t^n + t^{n+1})$$

Simplify.

$$33) \ (t^m)^n (t^n)^{n-m}$$

Solve.

$$35) \ 3^{5n} = 3^5(3^{2n})^2$$

Assignment:
pg. 173
2-38 even