



## Multiplying Exponents

\* *Expand the exponents and simplify*

Simplify using power rules

$$\text{Ex1) } 7^3 \cdot 7^5 =$$

$$\text{Ex2) } 5 \cdot 5^4 =$$

$$\text{Ex3) } (-7)^3 \cdot (-7)^6 =$$

$$\text{Ex4) } x \cdot x^4 \cdot x^3 =$$

$$\text{Ex5) } (4^2)^7 =$$

$$\text{Ex6) } (x^5)^5 =$$

$$\text{Ex7) } (5^3)^4 =$$

$$\text{Ex8) } ((x - 1)^2)^3 =$$

Simplify using power rules

$$\text{Ex9) } (24 \cdot 18)^2 =$$

$$\text{Ex10) } (7x)^3 =$$

$$\text{Ex11) } (9n^2)^2 =$$

$$\text{Ex12) } (-3x^5)^3 =$$

$$\text{Ex13) } -(5x^4)^2 =$$

$$\text{Ex14) } 6x^2 \cdot (2x^3)^2 =$$