WAY COOL Algebra

Multiply each expression.

1) $2^3 \cdot 2^5 = (2 \cdot 2 \cdot 2)(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2) = 2^8$

$$= 256$$

2) $x^7 \cdot x^{15} = x^{7+15} = x^{22}$

When we Multiply Powers with the same base, then we add their exponents.

Multiply each expression.

3) $y^4 \cdot y^6$

4) $m^9 \cdot m^8 \cdot m^3$

5) $-4x^3 \cdot 8x^5$

6) $(-3a^4)(-4a^5)$

7) $-2mp^5 \cdot 3m^4 p$

8) $(-4wx^3)(6w^3x^2)$

9) $(3rv)(-4r^3v^2)(2r^2v^4)$

10) $(\frac{3}{4}x^2 y)(-36xy^4)$