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

Multiply each expression.

11) $7(3x+5)$

12) $-5x(2x^2 - 7x + 9)$

13) $-8n^3(n^4 - 4n^2 + n)$

14) $2a^3b^2(3a^2b^4 - 4ab^5)$

Multiply each expression.

15) $8x(2x^2 - 5x + 7) - 3x(4x^2 + 3x - 8)$

16) $4x(x + 7) + 5x(2x^2 - 4x + 1)$

17) $-5y(3y^2 - 5y + 8) - 6y(y^2 - 4y - 5)$