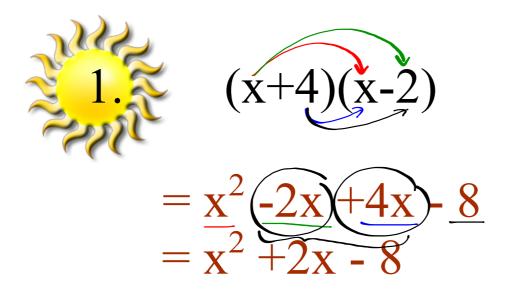




- 1. (x+4)(x-2)
- 2. $(5a^3b^5c^{-3})(10a^{-1}b^4)(2a^2b^{-1}c^2)$
- 3. $-3\text{m}^5\text{n}^{-4}(9\text{m}^2-6\text{n}^{-5}+2)$
- 4. (2x-1)(3x+2)

You have 10 minutes.

5. (3x-2y)(x+4y)



$$(5a^{3}b^{5}c^{-3})(10a^{-1}b^{4})(2a^{2}b^{-1}c^{2})$$

$$= 100a^{4}b^{8}c^{-1}$$

$$= 100a^{4}b^{8}c^{-1}$$

$$= 3+(-1)+3$$

OR

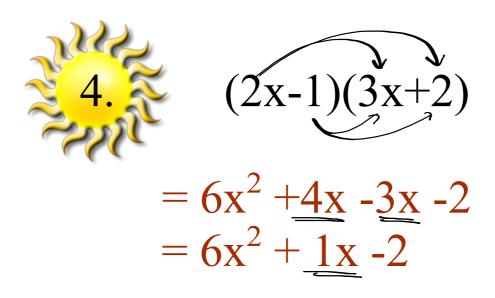
$$\frac{100a^4b^8}{c}$$

$$\begin{array}{ccc}
C &= C \\
-3+3 \\
0 &= C \\
3+(-1)+3 \\
0 &= C
\end{array}$$

$$-3m^{5}n^{-4}(9m^{2}-6n^{-5}+2)$$

$$= -27m^{7}n^{-4} + 18m^{5}n^{-9} - 6m^{5}n^{-4}$$

$$\frac{OR}{n^{4}} + \frac{18m^{5}}{n^{9}} + \frac{-6m^{5}}{n^{4}}$$



$$(3x-2y)(x+4y)$$
= $3x^2 + 12xy - 2xy - 8y^2$
= $3x^2 + 10xy - 8y^2$

Simplify:



$$(2x+3)^{2}$$
 $(2x+3)^{2}$
 $(2x+3)^{2}$
 $(2x+3)^{2}$
 $(3x+3)(3x+3)$
 $(4x^{3}+6x+6x+9)$
 $(4x^{3}+13x+9)$

$$(5x-3)^2$$

 $(5x-3)(5x-3)$
 $25x^2-15x-15x+9$
 $25x^2-30x+9$

Simplify:
$$(x+2)(x-5)$$
 Multiply brackets
$$2(x+2)(x-5)$$

$$2(x-5x+3x-10)$$

$$2(x^3-6x-30)$$



$$5(2x-1)(3x+4)$$

$$5(2x-1)(3x+4)$$

 $5(6x^2+8x-3x-4)$
 $5(6x^2+5x-4)$
 $30x^2+25x-20$

The Ultimate!
$$3k^{ams} \times 3k^{elms} = 6k^{cms}$$

$$x^{4}(3x^{3}) + 5x^{3}(x^{2}+3)$$

$$x^{4} + 5x^{3} + 0x^{3} + 15x - 9$$

$$x^{4} + 5x^{3} + 15x - 9$$

$$(5n-6)(3n^3+7n-1)$$

$$= 15n^3+35n^3-5n-18n^3-43n+6$$

$$= 15n^3+17n^3-47n+6$$

$$= b^{3} + bb + 3b$$

$$= (-b-6)(-b-6)$$

$$= (-b-6)(-b-6)$$

$$0 = 3(x-1)6x+3$$

$$= 3(6x^3+3x-6x-3)$$

$$= 3(6x^3-3x-3)$$

$$= 13x^3-6x-6$$

$$= -35m^3-30mn+40mn+46n^3$$

$$= -35m^3+10mn+48n^3$$