$2(x + 10)$

$2x + 20$

Distributive

FIRST

1. Find the Greatest Common Factor
2. Factor out the GCF
   * Divide everything by the GCF

Ex $\frac{4m}{4} - \frac{12}{4}$

$4(m - 3)$ check: $4m - 12$ ✓

ex $\frac{24a^2}{12} + \frac{12b^2}{12}$

$\boxed{12(2a^2 + b^2)}$ check $24a^2 + 12b^2$ ✓

ex $\frac{15cd}{15cd} + \frac{30c^2d^2}{15cd}$

$\boxed{15cd(1 + 2cd)}$

4 Terms

4

1. Group 1st 2 terms + last 2 terms together
2. Find the GCF of both groups
3. Whatever is left over is the same
4. Group outside + inside together

Ex $\left(\frac{x^3}{x^2}+\frac{2x^2}{x^2}\right)\left(+\frac{3x}{3}+\frac{6}{3}\right)$

$x^2(x+2)+3(x+2)$

b a + c a

$(x^2+3)(x+2)$ $a(b+c)$

$\left(\frac{x^3}{x^2}-\frac{6x^2}{x^2}\right)\left(\frac{-3x}{-3}+\frac{18}{-3}\right)$

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

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

Check

$x^3-6x^2-3x+18$