Factoring

The Order of Factoring:

Greatest Common Factor (GCF) ⟶ Difference of Two Perfect Squares (DOTS) ⟶ Trinomial (TRI) ⟶ "AC" Method / Earmuff Method (AC)

GCF: $ab + ac = a(b + c)$

DOTS: $x^2 - y^2 = (x + y)(x - y)$

TRI: $x^2 - x + 6$
$\Rightarrow (x + 2)(x - 3)$

AC ($a \neq 1$): $2x^2 + 15x + 18$
$x^2 + 15x + 36$
$(x + 12)(x + 3)$
$(x + \frac{12}{2})(x + \frac{3}{2})$
$\boxed{(x + 6)(2x + 3)}$

... and if all else fails to find the roots of a quadratic (an equation with an x^2 term), use the

Quadratic Formula (QF):

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Keep in mind that this formula is on your reference sheet, but you should really memorize it!

Other Forms of Complex Factoring

Factor by Grouping:

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

Common factor of x^2 Common factor of -3

$\Rightarrow x^2(x + 2) - 3(x + 2)$
$\Rightarrow (x^2 - 3)(x + 2)$

Steps
1) Group the first two terms and the last two terms. Re-arrange the original polynomial if necessary
2) Factor out GCF in both; the resulting binomial must be the same
3) Simply and write in correct form

Factoring Perfect Cubes by SOAP:

$x^3 - 8$
$(x)^3 - (2)^3$

$(x - 2)(x^2 + 2x + 4)$

Steps
S – "Same" as the sign in the middle of the original expression"
O – "Opposite" sign
AP – "Always Positive"
1) Take the cube root of each term
2) Write this result as a binomial, then find the trinomial using the first and last terms as a reference.

Rational Expressions & Equations

➤ To add or subtract rational expressions, you need to find a common denominator!

$$\frac{10}{2x^2} + \frac{5}{3x} \Rightarrow \frac{3}{3} \cdot \frac{10}{2x^2} + \frac{5}{3x} \cdot \frac{2x}{2x} \Rightarrow \frac{30}{6x^2} + \frac{10x}{6x^2} = \frac{30 + 10x}{6x^2}$$

➤ To multiply rational expressions, factor first, reduce, and then multiply through.

$$\frac{6a}{3a + 15} \cdot \frac{4a + 20}{2a^2} \Rightarrow \frac{6a}{3(a+5)} \cdot \frac{4(a+5)}{2a^2} \Rightarrow \frac{2}{1} \cdot \frac{2}{a} = \frac{4}{a}$$

➤ To divide rational expressions, flip the second fraction, factor, reduce, and then multiply through.

$$\frac{6x + 18}{4} \div \frac{x^2 + 3x}{5x^2} \Rightarrow \frac{6x + 18}{4} \cdot \frac{5x^2}{x^2 + 3x} \Rightarrow \frac{6(x+3)}{4} \cdot \frac{5x^2}{x(x+3)} = \frac{15x}{2}$$

➤ Complex Fractions: Multiply each fraction by the LCD, cancel what's common. & simplify.

$$\frac{x^2 \cdot \frac{2}{x^2} - \frac{4}{x} \cdot x^2}{x^2 \cdot \frac{4}{x} - \frac{2}{x^2} \cdot x^2} \Rightarrow \frac{2 - 4x}{4x - 2} = -1$$

➤ Solving Rational Equations: Find a common denominator, multiply each fraction only by what is "needed", solve for the equation in the numerator. **Check answers when complete!**

$$\frac{1}{x} - \frac{1}{3} = -\frac{1}{3x} \Rightarrow \frac{3}{3} \cdot \frac{1}{x} - \frac{1}{3} \cdot \frac{x}{x} = -\frac{1}{3x} \Rightarrow \frac{3}{3x} - \frac{x}{3x} = \frac{-1}{3x}$$

$$3 - x = -1 \Rightarrow x = 4$$

Common Core Algebra Regents Practice

Victor M. Corman

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