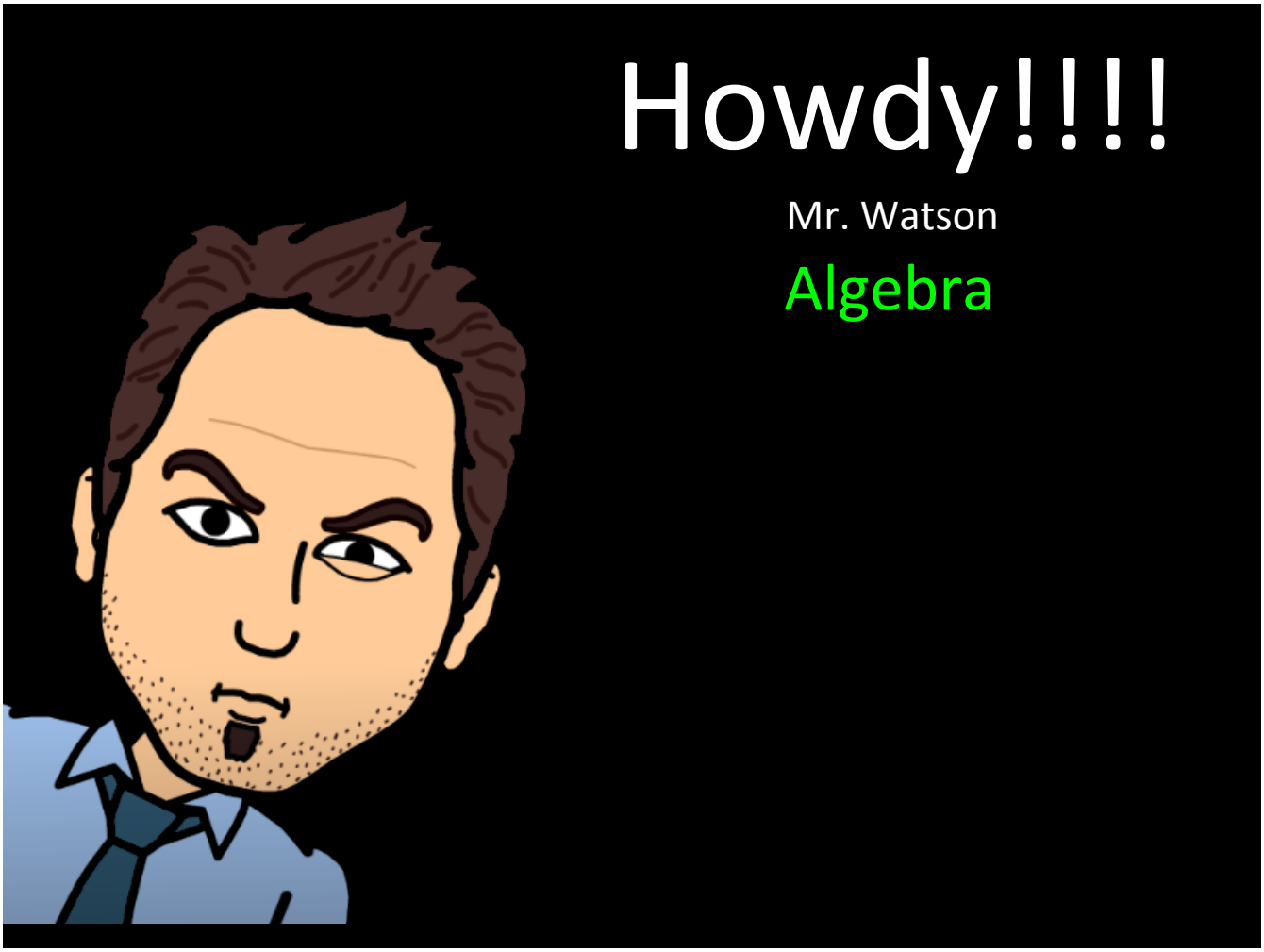

Howdy!!!!
Mr. Watson
Algebra

What is always the first step when factoring quadratics?

① GCF

② ( )( )

Factoring GCF:

$x^2 - 12x$

$x(x-12)$

$14x^3 + 7x^2$

$7x^2(2x+1)$

Factoring a = 1:

$x^2 - 81$

$x^2 + 0x - 81$

$(x - 9)(x + 9)$

$x^2 - 5x + 6$

$(x - 2)(x - 3)$

Factoring a not 1:

$5x^2+19x+12$

$(5x+4)(x+3)$

$+15x$
$+4x$

☆ $\frac{9x^2}{3}+\frac{66x}{3}+\frac{21}{3}$

$3(3x^2+22x+7)$

$3(3x+1)(x+7)$

$21x$
$1x$

Factor:

$3x^2 - 8x + 4$

$(3x - 2)(x - 2)$

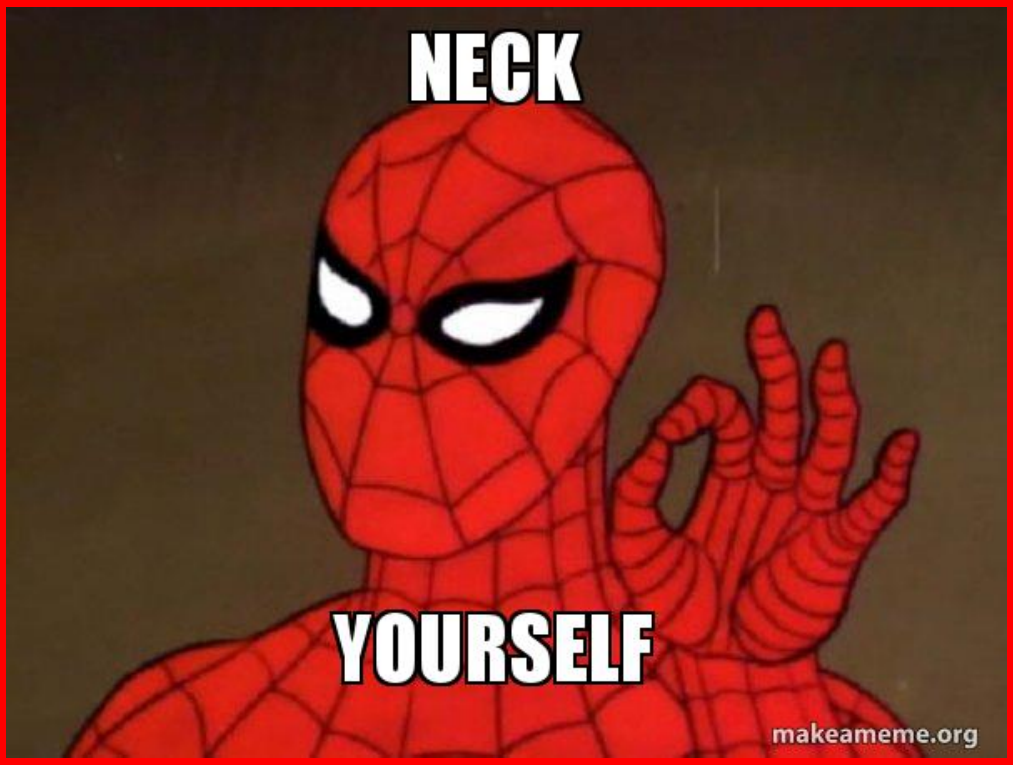
$-6x$
$-2x$

$4x^2 - 4x - 3$

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

$2x$ $\quad -2x$
$-6x$ $\quad 6x$
$-4x$ $\quad 4x$

GOTCHA


NECK
YOURSELF
makeameme.org

Review: Factor the following

$x^2 + 6x - 40$

$(x+10)(x-4)$

$\frac{4x^2}{4} + \frac{28x}{4} - \frac{32}{4}$

$4(x^2+7x-8)$

$4(x+8)(x-1)$

$\frac{18x^2}{6} + \frac{42x}{6} - \frac{120}{6}$

$6(3x^2+7x-20)$

$6(3x-5)(x+4)$

$18x^2 + 42x - 120$

$-8x+5$

Challenge: Factor the following

$6x^2-35x+49$

$(3x-7)(2x-7)$

$-21x$
$-14x$
$-35x$

$\frac{2x^2}{2}-\frac{8x}{2}-\frac{120}{2}$

$2(x^2-4x-60)$

$2(x-10)(x+6)$

$6x$
$-10x$
$-4x$

QUIZ