Name: _____   Date: _____ Score: _____

$x^3 + 6x^2 - 14x + 16$ $x^3 - 9x^2 + 17x - 21$

$x^3 - 7x^2 - x - 56$ $6x^2 + 36x$

$x^3 + 5x^2 - 8x + 42$ $x^3 - 3x^2 - x - 45$

$x^3 + 4x^2 - 64x - 256$ $x^3 + 2x^2 + x + 12$

$6x^2 - 36x$ $9x^2 - 81x$

Name: _____   Date: _____   Score: _____

$x^3 + 6x^2 - 14x + 16$
$(x + 8)(x^2 - 2x + 2)$

$x^3 - 9x^2 + 17x - 21$
$(x - 7)(x^2 - 2x + 3)$

$x^3 - 7x^2 - x - 56$
$(x - 8)(x^2 + x + 7)$

$6x^2 + 36x$
$6x(x + 6)$

$x^3 + 5x^2 - 8x + 42$
$(x + 7)(x^2 - 2x + 6)$

$x^3 - 3x^2 - x - 45$
$(x - 5)(x^2 + 2x + 9)$

$x^3 + 4x^2 - 64x - 256$
$(x - 8)(x + 4)(x + 8)$

$x^3 + 2x^2 + x + 12$
$(x + 3)(x^2 - x + 4)$

$6x^2 - 36x$
$6x(x - 6)$

$9x^2 - 81x$
$9x(x - 9)$