Name: _____   Date: _____ Score: _____

$x^3 + x^2 - 34x + 56$ $x^3 + 10x^2 + 14x + 45$

$x^3 + 18x^2 + 96x + 128$ $x^3 - x^2 - 4$

$x^3 - 7x^2 - 11x - 63$ $7x^2 - 49x$

$12x^3 + x^2 - 38x - 24$ $6x^2 + 36x$

$4x^2 + 16x$ $42x^3 + 71x^2 - 332x + 224$

Name: _____

Date: _____   Score: _____

$x^3 + x^2 - 34x + 56$
$(x - 2)(x - 4)(x + 7)$

$x^3 + 10x^2 + 14x + 45$
$(x + 9)(x^2 + x + 5)$

$x^3 + 18x^2 + 96x + 128$
$(x + 8)(x + 2)(x + 8)$

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

$x^3 - 7x^2 - 11x - 63$
$(x - 9)(x^2 + 2x + 7)$

$7x^2 - 49x$
$7x(x - 7)$

$12x^3 + x^2 - 38x - 24$
$(4x + 3)(x - 2)(3x + 4)$

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

$4x^2 + 16x$
$4x(x + 4)$

$42x^3 + 71x^2 - 332x + 224$
$(7x - 8)(x + 4)(6x - 7)$