Factoring Polynomials Puzzle

Name: _____

Date: _____

Draw a line to the correct answer.

$8x^6 - 19x^3 - 27$	■	■	$(x - 3)(x^2 + 3x + 9)$
$x^3 - 4x^2 + 4x$	■	■	$(x^2 - 2)(x^2 + 2)(5x^2 - 4)(5x^2 + 4)$
$x^3 + 2x^2 - 15x$	■	■	$(x^2 - 2)(x + 1)(x - 1)$
$x^6 - 1$	■	■	$(x^2 - 5)(5x^2 - 1)(5x^2 + 1)$
$4x^8 - 41x^4 + 100$	■	■	$x(x - 2)^2$
$x^4 - x^2 - 72$	■	■	$(x - 1)(x^2 + x + 1)(x + 1)(x^2 - x + 1)$
$25x^6 - 125x^4 - x^2 + 5$	■	■	$(x^2 - 2)(x^2 + 2)(2x^2 - 5)(2x^2 + 5)$
$x^3 - 27$	■	■	$x(x + 5)(x - 3)$
$x^2 - 3x^2 + 2$	■	■	$(x^2 - x + 1)(x + 1)(2x - 3)(4x^2 + 6x + 9)$
$25x^8 - 116x^2 + 64$	■	■	$(x^2 + 8)(x + 3)(x - 3)$