

Factoring Review Worksheet

Factor each expression completely.

$64x^4 + x$	$4x^2 + 16x + 16$
$5x^3 - 40y^3$	$16 - x^4$
$6x^2 - 7x - 10$	$2x^3 + 128y^3$
$x^2 + 3xy - 10y^2$	$x^2 + 5x - 84$
$16x^2 + 56x + 49$	$6x^3 - 26x^2 - 20x$

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Answers

$64x^4 + x$ $x(4x + 1)(16x^2 - 4x + 1)$	$4x^2 + 16x + 16$ $4(x + 2)^2$
$5x^3 - 40y^3$ $5(x - 2y)(x^2 + 2xy + 4y^2)$	$16 - x^4$ $(4 + x^2)(2 + x)(2 - x)$
$6x^2 - 7x - 10$ $(x - 2)(6x + 5)$	$2x^3 + 128y^3$ $-(x + 4y)(x^2 - 4xy + 16y^2)$
$x^2 + 3xy - 10y^2$ $(x + 5y)(x - 2y)$	$x^2 + 5x - 84$ $(x + 12)(x - 7)$
$16x^2 + 56x + 49$ $(4x + 7)^2$	$6x^3 - 26x^2 - 20x$ $2x(3x + 2)(x - 5)$