

Name : _____

Factoring Polynomials

Sheet 2

Factorize each polynomial by grouping.

1) $y^2z + 6y^2 - 8yz - 48y + 15z + 90$

2) $2k^3 + k^2 + 4k + 2$

3) $b^3 - 8b^2 - 9b + 72$

$)^2 - 9(s + t) + 27$

5) $24x^4 - 6x^3 + 20x^2$

$\cdot 12$

7) $c^4d^4 - c^5 - d^5 + cd$

$\cdot 1$

9) $u^3 + u^2v + 2u^2w + 2uvw + uw^2 + vw^2$

10) $2ab - 2b^2 + 3a - 3b$

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Factoring Polynomials

Factorize each polynomial by grouping.

1) $y^2z + 6y^2 - 8yz - 48y + 15z + 90$

$(y - 5)(y - 3)(z + 6)$

2) $2k^3 + k^2 + 4k + 2$

$(2k + 1)(k^2 + 2)$

3) $b^3 - 8b^2 - 9b + 72$

$(b - 8)(b + 3)(b - 3)$

5) $24x^4 - 6x^3 + 20x^2$

$x(6x^2 + 5)(4x - 1)$

7) $c^4d^4 - c^5 - d^5 + cd^5$

$(c^4 - d)(d^4 - c)$

9) $u^3 + u^2v + 2u^2w + 2uvw + uw^2 + vw^2$

$(u + v)(u + w)^2$

10) $2ab - 2b^2 + 3a - 3b$

$(a - b)(2b + 3)$

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