

Name : _____

Factoring Polynomials

Sheet 3

Factorize each polynomial.

1) $8a^6c - 32a^4b^2c$

2) $2r^2 + 5r - 12$

3) $-p^5 - 9p^4 - 2$

$-2st^2 + s^2 - t^2$

5) $12g^2 - 14gh$

7) $5d^3 - 35d^2 +$

$+ 3)^2 - 8(u + 3) + 24$

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9) $mn - 2m - 2n + 4$

10) $x^4 - 4x^3 + 6x^2 - 4x + 1$

Name : _____

Answer key

Sheet 3

Factoring Polynomials

Factorize each polynomial.

1) $8a^6c - 32a^4b^2c$

$8a^4c(a + 2b)(a - 2b)$

2) $2r^2 + 5r - 12$

$(2r - 3)(r + 4)$

3) $-p^5 - 9p^4 - 2p^3$

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

$-2st^2 + s^2 - t^2$

$(s + 1)^2$

5) $12g^2 - 14gh - 2h^2$

$2(3g - 2h)(2g + h)$

7) $5d^3 - 35d^2 + 50d - 25$

$5(d - 1)(d - 5)$

$(u + 3)^2 - 8(u + 3) + 24$

$u(u + 6u + 1)$

9) $mn - 2m - 2n + 4$

$(m - 2)(n - 2)$

10) $x^4 - 4x^3 + 6x^2 - 4x + 1$

$(x - 1)^4$

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