

Name : _____

Factoring Polynomials

Sheet 1

Factorize each polynomial.

1) $m^6 - m^3n - 2n^2$

2) $6w^2 + 8w - 8$

3) $k^4 + 8k^3 + 15k^2$

xy^2z

5) $3p^5 + 3p^4r + 3p^3r^2$

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$-48v^2 + 15v + 90$

7) $27a^3 - 81a^2b + 81ab^2 - 27b^3$

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

9) $81g^2 - 16h^2$

10) $-s^6 + 4s^4$

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Answer key

Sheet 1

Factoring Polynomials

Factorize each polynomial.

1) $m^6 - m^3n - 2n^2$

$(m^3 + n)(m^3 - 2n)$

2) $6w^2 + 8w - 8$

$2(w + 2)(3w - 2)$

3) $k^4 + 8k^3 + 15k^2$

$k(k + 1)(k + 15)$

xy^2z

5) $3p^5 + 3p^4r + 3p^3r^2$

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

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$-48v^2 + 15v + 90$

7) $27a^3 - 81a^2b + 81a^2c - 27ab^2 + 54abc - 27ac^2$

$27(a - 1)^3$

$5(v + 6)$

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

$(b - c - 2)(b - c + 2)^2$

9) $81g^2 - 16h^2$

$(9g + 4h)(9g - 4h)$

10) $-s^6 + 4s^4$

$-s^4(s + 2)(s - 2)$

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