

Name : \_\_\_\_\_

## Factoring Polynomials

Sheet 2

Factorize each polynomial.

1)  $18u^5 - 33u^2$

2)  $a^3b + 5a^2b^2 + 6ab^3$

3)  $10s^2 + 27st -$

$7k^2 - 35$

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

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$g^2 - 10g$

7)  $q^2r - 6q^2 + 8$

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$8xy - 64y$

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9)  $-16d^3 + 40d^2 - 24d$

10)  $(m + 1)^2 + 24(m + 1) + 144$

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## Answer key

Sheet 2

### Factoring Polynomials

Factorize each polynomial.

1)  $18u^5 - 33u^2$

$3u^2(6u^3 - 11)$

2)  $a^3b + 5a^2b^2 + 6ab^3$

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

3)  $10s^2 + 27st - 7t^2$

$(5s + t)(2s - 7t)$

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

$(v - 1)(v - 3)(5v + 2)$

7)  $q^2r - 6q^2 + 8qr - 48$

$(q - 1)(q + 9)(r - 6)$

9)  $-16d^3 + 40d^2 - 24d$

$-8d(2d - 3)(d - 1)$

10)  $(m + 1)^2 + 24(m + 1) + 144$

$(m + 13)^2$

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