

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

## Factoring Binomials

MS3

Factorize each binomial.

1)  $35m^3n^4 + 42mn^3$

2)  $18x^2y - 6xy^2$

3)  $30u^7v^4 + 66u^6v^5$

5)  $52s^7t^5 - 4s^7t^6$

7)  $45c^4d^2 - 15c^3d^3$

9)  $12q^4r^2 + 36q^3r^6$

10)  $49b^4 + 70b^7$

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## Answer key

MS3

### Factoring Binomials

Factorize each binomial.

1)  $35m^3n^4 + 42mn^3$

$7mn^3(5m^2n + 6)$

2)  $18x^2y - 6xy^2$

$6xy(3x - y)$

3)  $30u^7v^4 + 66u^5v^6$

$6u^2v^4(5u^5 + 11v^2)$

5)  $52s^7t^5 - 4s^7t^3$

$4s^7t^2(13t^3 - 1)$

7)  $45c^4d^2 - 15c^3d^2$

$15c^3d^2(3c - d)$

9)  $12q^4r^2 + 36q^3r^6$

$12q^3r^2(q + 3r^4)$

10)  $49b^4 + 70b^7$

$7b^4(7 + 10b^3)$

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