

Factoring Polynomials

Sheet 3

Factorize each polynomial.

1) $4r^3 + 28r^2 + 48r$

2) $7u^2 + 28u^3 - 10u^4 - 40u^5$

3) $42t^3 - 14t^2$

$9x - 38$

5) $2rs + 6r^2 -$

$15m - 60$

7) $v^3 - 16v^2 -$

$35p^2 - 10p^3$

9) $9xy + 18x + 14yz + 28z$

10) $n^4 + 14n^3 - 95n^2$

PREVIEW

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Answer key**Factoring Polynomials**

Sheet 3

Factorize each polynomial.

1) $4r^3 + 28r^2 + 48r$

$4r(r + 4)(r + 3)$

2) $7u^2 + 28u^3 - 10u^4 - 40u^5$

$u^2(7 - 10u^2)(1 + 4u)$

3) $42t^3 - 14t^2$

$(3t - 1)(14t^2)$

$9x - 38$

$19)$

5) $2rs + 6r^2 -$

$(s + 3r)(2r)$

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$15m - 60$

$n - 4)$

7) $v^3 - 16v^2 -$

$v(v - 21)(v + 5)$

$35p^2 - 10p^3$

$(7 - 2p)(7 + 5p^2)$

9) $9xy + 18x + 14yz + 28z$

$(y + 2)(9x + 14z)$

10) $n^4 + 14n^3 - 95n^2$

$n^2(n + 19)(n - 5)$