

Name : _____

Factoring Polynomials

Sheet 3

Factorize each polynomial by grouping.

1) $4r^8 + 12r^6 + 16r^2 + 48$

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

3) $42t^3 - 14t^2 + 51t$

$4p + 49$

5) $(m - 2)^3 - 4(m - 2)$

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$r - 9s$

7) $u^2vw + uv^2 + uw^2$

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9) $9ab - 18a - 14bc + 28c$

10) $g^2h - 2g^2 - 8gh + 16g + 15h - 30$