

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

## Factoring Polynomials - Synthetic Division

Sheet 2

Apply synthetic division method to factorize each polynomial.

1)  $n^5 - 82n^3 + 81n$

2)  $2p^3 + p^2 - 7p - 6$

3)  $u^4 - 11u^3 + 41u^2 - 6$

- 48

5)  $72s^2 + 24s - 6$

$v^2 + 20v + 4$

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1) Determine whether  $2d + 1$  is a factor of  $16d^6 - 32d^5 - 4d^4 + 48d^3 + 8d^2 - 6d$ .

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