

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

## Factoring Polynomials - Synthetic Division

Sheet 1

Apply synthetic division method to factorize each polynomial.

1)  $6x^3 + 47x^2 + 36x + 7$

2)  $9a^4 - 9a^3 - 70a^2 + 16a + 96$

3)  $16b^5 + 48b^4 - 9b^3 -$

5)  $y^4 - 10y^2 + 9$

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

1) Determine whether  $r - 4$  is a factor of  $-2r^5 + 6r^4 + 10r^3 - 6r^2 - 9r + 4$ .

---