Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mr. Schlansky Algebra II

***Determining Whether a Binomial is a Factor***

**Determine whether the following are factors**

1. Is  a factor of ? Explain your answer.

2. Is  a factor of ? Explain your answer.

3. Is  a factor of ? Explain your answer.

4. Determine if  is a factor of . Explain your answer.

5. Determine if is a factor of . Explain your answer.

6. Determine if is a factor of . Explain your answer.

7. Use an appropriate procedure to show that  is a factor of the function . Explain your answer.

8. Which binomial is a factor of ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

9. Which binomial is *not* a factor of the expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

10. Which binomial is *not* a factor of the expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

11. Which binomial isa factor of the expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

12. Which binomial is *not* a factor of the expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

13. Which binomial isa factor of the expression ?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

14. Which binomial is not a factor of ?

1)  3) 

2)  4) 

15. Given , find the value of . What does your answer tell you about  as a factor of ? Explain.

16. When  is divided by , the remainder is 0. Given , which conclusion about  is true?

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) | is a factor of . |
| 4) | No conclusion can be made regarding . |