Lesson 4.3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_

**Divide Using Long Division.**

|  |  |
| --- | --- |
|  | 1.

 |
| 1.

 |  |

Lesson 4.3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_

**Divide Using Synthetic Division.**

|  |  |
| --- | --- |
| 1. 3x3 – 7x2 + 6x + 8 ÷ x – 1
 | 1. 2x3 – x – 7 ÷ x + 3
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |

**Use synthetic division to evaluate the function for the indicated value of x.**

|  |  |
| --- | --- |
| 1. f(x) = 4x3 – 2x2 – 5x + 11 when x = -2
 | 1. Find f(2) when f(x) = -3x4 +2x3– 12x – 6.
 |
| 1.
 | 1.
 |
| 1.
 | 1.
 |