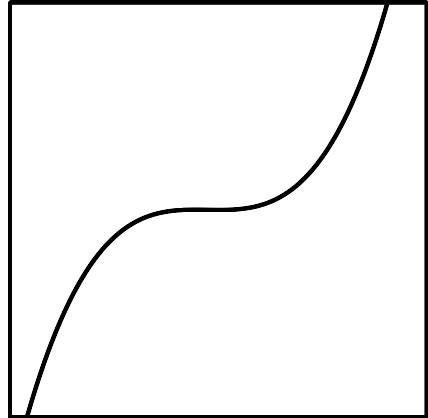
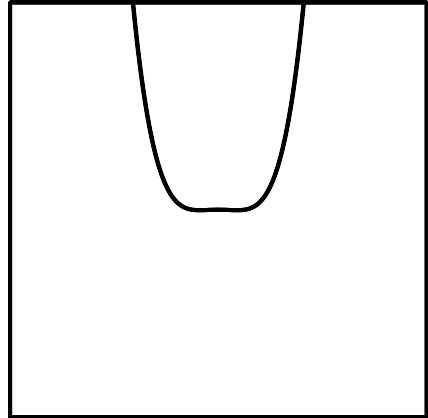
## Unit 2 Lesson 8: End Behavior (Part 1)

### 1 Notice and Wonder: A Different View (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?





### 2 Polynomial End Behavior

#### Student Task Statement

1. For your assigned polynomial, complete the column for the different values of . Discuss with your group what you notice.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| * -1000 |  |  |  |  |
| * -100 |  |  |  |  |
| * -10 |  |  |  |  |
| * -1 |  |  |  |  |
| * 1 |  |  |  |  |
| * 10 |  |  |  |  |
| * 100 |  |  |  |  |
| * 1000 |  |  |  |  |

1. Sketch what you think the **end behavior** of your polynomial looks like, then check your work using graphing technology.

### 3 Two Polynomial Equations

#### Student Task Statement

Consider the polynomial .

1. Identify the degree of the polynomial.
2. Which of the 6 terms, , , , , , or , is greatest when:
3. Describe the end behavior of the polynomial.



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