**MPM1D1** **PUTTING IT ALL TOGETHER: REVIEW THE BASICS**

1. Place your answer on the line provided.

a) Given the polynomial , the:

i) number of terms is \_\_\_\_\_\_\_ ii) degree of the polynomial is \_\_\_\_\_\_\_

iii) constant term is \_\_\_\_\_\_\_ iv) coefficient on the 5th term is \_\_\_\_\_\_\_

b) State the constant of each:

i)  \_\_\_\_\_ ii)  \_\_\_\_\_ iii) – 3 \_\_\_\_\_

c) Which of the following is not a “like term”? x2y, 3x2y, -3xy2, -x2y \_\_\_\_\_\_\_\_\_

d) An expression that consists of 2 terms is called a \_\_\_\_\_\_\_\_\_\_\_\_\_

e) Give an example of a trinomial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

f) An expression that conisists of one term is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

g) Evaluate : -32 = \_\_\_\_\_\_\_ (-3)2 = \_\_\_\_\_\_\_\_\_\_\_\_ (-5)2 = \_\_\_\_\_\_\_\_\_\_ (-4)0 = \_\_\_\_\_\_

h) Express in power form using base 3. a) = \_\_\_\_\_\_\_\_\_\_ b) = \_\_\_\_\_\_\_\_\_\_

2. Expand and simplify.

a)  d)  e) 

c)  d) 

3. Simplify, leaving your answer as a power with **positive** exponents. Show all your work.

a)  b)  c)  d) 

e)  f)  g) h) 

i)  j)  k)  l) 

4. Mrs. Dubeau asked the class to simplify the following expression:

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She then asked Debbie and Cindy to place their answers on the board. Each student’s solution is given below.

|  |  |
| --- | --- |
| **DEBBIE’S ANSWER:** | **CINDY’S ANSWER:** |
|  |  |

Are either student correct? If not, explain clearly.

5. **Simplify** the expression **and then** determine its value when .

Simplfied:  when .

6. Find the simplified algebraic expression for the perimeter of each polygon.

1. b. c.

5m + 1

2

m

7

3x

x

3

x

2m

7. Find the simplified algebraic expression for the area of each polygon.

a. b. c.

2m + 1

2

3x +2

3

x

4

2x

2

8. The **perimeter** of triangle ABC is given by the algebraic expression 5*x*2 + 3*x*

What is the simplified algebraic expression for the **area** of rectangle ACDE?

