Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_

**10.1B NOTES - EXPONENTS**

**REIVEW**

|  |  |
| --- | --- |
| 1. Describe and correct the error in evaluating the expression | 1. Describe the difference between   -34 and (-3)4 |

**SCIENTIFIC CALCULATOR NOTES**

|  |
| --- |
| You can use “^” for exponents. Example: 23 = 2 ^ 3 |

EXAMPLE 2(p. 412) – Evaluate each expression

|  |  |
| --- | --- |
| 1. (-2)4 | 1. -24 |

What is order of operations? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example 3 (video in Big Ideas Math (BIM)) – Evaluate each expression

|  |  |
| --- | --- |
| 1. 2 – 4 · 52 | 1. 5 + 62 ÷ 4 |

What is absolute value? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ON YOUR OWN (O.Y.O.) #3 – 6 (p. 413) – Evaluate the expression

|  |  |
| --- | --- |
| 1. -54 |  |
|  | 1. 9 – 25 · 0.5 |

Continued on back

ADDITIONAL EXAMPLE PROBLEMS (SIMILAR TO HW QUESTIONS)

|  |  |
| --- | --- |
| 1. Write the product using exponents | 1. Evaluate the expression |

What do you do when you have a coefficient that is in exponential form? Do you evaluate it or keep it in exponential form? Example: and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HW: (10.1B) p. 414 #3 – 10, 21 – 24 all (do assignment in BIM)

If you must do on paper…COPY DOWN THE PROBLEM & SHOW YOUR WORK (You do not have to show work on #3-9). CHECK YOUR ODD ANSWERS. PLACE “√” NEXT TO CORRECT ANSWERS. CIRCLE ANSWERS AND WRITE “?” IF IT IS INCORRECT AND YOU CANNOT FIND YOUR MISTAKE

CCSS: 8.EE.1 (Evaluate expressions using integer exponents)