Math 8/8H

**HW 2.1a**

*I can apply properties of exponents.*

*For the following questions, categorize whether the following answers are going to be positive or negative* ***(Put a “P” or a “N” beside it.)***

|  |  |  |
| --- | --- | --- |
| $$2^{6}=$$ | $$-9^{2}=$$ | $$-1^{9}=$$ |
| $$-4^{4}=$$ | $$6^{9}=$$ | $$(-10)^{7}=$$ |
| $$(-5)^{5}=$$ | $$(-3)^{4}=$$ | $$4^{9}=$$ |
| $$-6^{6}=$$ | $$-7^{19}=$$ | $$7^{7}=$$ |
| $$(-45)^{45}=$$ | $$4^{1212}=$$ | $$-8^{8}=$$ |
| $$(-1)^{1}=$$ | $$(-8)^{2}=$$ | $$-14^{5}=$$ |
| $$0^{4}=$$ | $$-7^{4}=$$ | $$9^{2}=$$ |
| $$(-8)^{1}=$$ | $$9^{135}=$$ | $$(-8)^{1}=$$ |
| $$(-9)^{9}=$$ | $$14^{3}=$$ | $$-6^{3}=$$ |
| $$1^{789056}=$$ | $$-7^{1}=$$ | $$-4^{10}=$$ |
| $$(-23)^{23}=$$ | $$(-3)^{19}=$$ | $$(-2)^{5}=$$ |
| $$-32^{12}=$$ | $$(-6)^{8}=$$ | $$(-0)^{3}=$$ |
| $$(-2)^{5}=$$ | $$2^{7}=$$ | $$-6^{1}=$$ |
| $$-9^{1}=$$ | $$(-27)^{35}=$$ | $$9^{4}=$$ |
| $$(-15)^{12}=$$ | $$-8^{6}=$$ | $$(-5)^{12}=$$ |
| $$8^{6}=$$ | $$(-7)^{45}=$$ | $$-5^{8}=$$ |
| $$(-7)^{90}=$$ | $$-0^{3}=$$ | $$2^{2}=$$ |
| $$-41^{1}=$$ | $$-2^{4}=$$ | $$(-4)^{7}=$$ |
| $$(-41)^{1}=$$ | $$7^{9}=$$ | $$(-0)^{5}=$$ |
| $$41^{2}=$$ | $$(-42)^{18}=$$ | $$-6^{13}=$$ |

**Pick one from each column and tell me why the answer is positive/negative.**
(DETAILED EXPLANATIONS**!)**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*\*Write an exponent problem that has parentheses but the answer will be NEGATIVE:\_\_\_\_\_\_\_\_\_**