

Name:
Period:
Date:

Simply the following expressions.

1.) $(2a)^6$

Hint: Product to a Power Property. 2 multiplied by itself six times and the same for a.

2.) $(-4x)^6$

Hint: Remember negative is inside parentheses taken to an even power.

3.) $(\frac{9}{10}y)^2$

Hint: Same as number 1 use that as a guide.

4.) $(xy)^{16}$

Hint: Same as number 1.

5.) $10^5 \cdot 10^3 - (10^1)^8$

Hint: Do not forget the negative/subtraction sign. Follow PEMDAS and use Power to a Power Property.

6.) $7^2(7^4 \cdot 7^4)$

Hint: Use PEMDAS and Product of Powers Property. You will get $7^2(7^8)$. Simplify the rest.