

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 10B.1 – Powers to Powers / Products to Powers

#1-3, Simplify.

1. $(4^2)^5$ (leave answer in exponent form)

2. $(-3b^3)^4$

3. $(-2n^4p)^5$

#4-9, Simplify.

4. $(-xy^6)(x^4)^3$

5. $(-2ab^7)^3(-a^6)^2$

6. $(4a^5)^2(-a^4)^2$

7. $(x^5z^4)^3(3x^8z^9)^4$

8. $(-5p^3q^7)^3(-5m^{19}p^8q^6)^2$

9. $(-6wd^5f^{11})^2(-w^4d^{12}f^2)^2(-w^{10}d^9f)^3$