

Power Laws Of Indices

Name: _____

Date: _____

Simplify:

1. $(3^2)^5 =$

2. $(a^3)^4 =$

3. $(2a^2)^3 =$

4. $(2^2 a^5 b^3)^2 =$

5. $(-3a^2)^2 =$

6. $(s^2 t^4)^3 =$

7. $\left(\frac{s}{t}\right)^5 =$

8. $\left(\frac{3^9}{3^5}\right)^2 =$

9. $\left(\frac{st^8}{rt^4}\right)^2 =$

10. $\left(\frac{36a^5 b^8}{4a^4 b^5}\right)^2 =$