

Power Laws Of Indices

Name: _____

Date: _____

Simplify:

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

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

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

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

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

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

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

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

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

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