

Math Sheet

Name _____ Score _____ / 14 Teacher _____ Date _____

Power of Products

Distribute each outer power to every factor.

1. 7^2

2. $(5 \cdot x^{-5})^4$

Domain: real variables $x \neq 0$

3. $(7 \cdot y^5 \cdot z^{-4})^3$

Domain: real variables $z \neq 0$

4. 3^3

5. $(2 \cdot y^5)^2$

6. $(3 \cdot x^{-6} \cdot z^3)^4$

Domain: real variables $x \neq 0$

7. 7^3

8. $(8 \cdot x^{-3})^2$

Domain: real variables $x \neq 0$

9. $(7 \cdot y^3 \cdot z^{-6})^3$

Domain: real variables $z \neq 0$

10. 6^3

11. $(2 \cdot y^2)^5$

12. $(4 \cdot x^{-4} \cdot z^5)^2$

Domain: real variables $x \neq 0$

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Power of Products

Distribute each outer power to every factor.

13. 8^2

14. $\left(7 \cdot x^{-6}\right)^4$

Domain: real variables $x \neq 0$
