

UB SAT 2009
Homework #4
Exponents and Roots
Due: Thurs, Feb 12

Evaluate the following.

1. $(-4)^3$

2. $x^2 \cdot x^5$

3. 5^{-3}

4. $\left(\frac{3}{5}\right)^3$

5. $\frac{y^4}{y^2}$

6. $\frac{2^4}{2^{-3}}$

7. $3^{3x} \cdot 3^x$

8. $x^{1/3} \cdot x^{2/3}$

9. $(3xy^2z)^3$

10. $\left(\frac{2x}{y}\right)^4$

11. $(2x^3y^4)^5$

12. $\left(-\frac{2}{3}\right)^2$

13. $a^2 \cdot a^{-3} \cdot a^7$

14. $2^r \cdot 2^s$

15. $\frac{10^3 \cdot 10^2}{10^4}$

16. $\frac{x^5 \cdot x^2}{x^3}$

17. $\frac{x^3}{x^5 \cdot x^2}$

18. $\frac{p^{-6} \cdot p^4}{p^3}$