

UB SAT 2009
Homework #5
Exponents and Roots
Due: Mon, Feb 23

Solve for y . Make sure to leave answers as roots and fractions (no decimals!!).

1. $y^2 = 9$

2. $y^2 = 81$

3. $y^2 = 144$

4. $y^3 = 64$

5. $y^3 = -27$

6. $y^4 = 16$

7. $y^{1/2} = 16$

8. $y^{1/2} = 1$

9. $y^{1/3} = 8$

10. $y^{3/5} = -8$

11. $y^{-2} = 9$

12. $y^{-2} = \frac{1}{16}$

13. $y^2 = 72$

14. $y^2 = 32$

15. $y^2 = 147$

Simplify. Leave answers as roots (no decimals!!!).

16. $\sqrt{25}$

17. $\sqrt{100}$

18. $\sqrt{225}$

19. $\sqrt{24}$

20. $\sqrt{32}$

21. $\sqrt{45}$

22. $\sqrt{108}$

23. $\sqrt{128}$

24. $\sqrt{20}$