

Kerry Ojakian's MTH 28.5 Class
Class Assignment #27

Simplify.

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|---------------------|----------------------------|
| 1. $\sqrt{25}$ | 15. $\sqrt[7]{x^{21}}$ |
| 2. $\sqrt{-25}$ | 16. $\sqrt{x^4}$ |
| 3. $\sqrt{1}$ | 17. $\sqrt[4]{x^{32}}$ |
| 4. $\sqrt{0}$ | 18. $\sqrt[9]{z^{36}}$ |
| 5. $\sqrt{20}$ | 19. $\sqrt[11]{z^{22}}$ |
| 6. $\sqrt{10}$ | 20. $\sqrt[4]{81x^{12}}$ |
| 7. $\sqrt{98}$ | 21. $\sqrt[7]{128y^{35}}$ |
| 8. $\sqrt{50}$ | 22. $\sqrt[3]{125z^{35}}$ |
| 9. $\sqrt[3]{8}$ | 23. $\sqrt{9x^{32}y^{18}}$ |
| 10. $\sqrt[3]{27}$ | 24. $\sqrt{36x^2y^4z^6}$ |
| 11. $\sqrt[3]{125}$ | 25. $\sqrt{-9}$ |
| 12. $\sqrt[3]{40}$ | 26. $\sqrt{-16}$ |
| 13. $\sqrt[3]{108}$ | 27. $\sqrt[6]{-64}$ |
| 14. $\sqrt[3]{x^9}$ | 28. $\sqrt[3]{-8}$ |

Keep simplifying!

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|--------------------------|-----------------------------|
| 29. $\sqrt{x^9}$ | 37. $\sqrt[3]{x^4}$ |
| 30. $\sqrt{y^5}$ | 38. $\sqrt[3]{y^7}$ |
| 31. $\sqrt{z^{21}}$ | 39. $\sqrt[3]{z^5}$ |
| 32. $\sqrt{18x^5}$ | 40. $\sqrt[3]{x^{25}}$ |
| 33. $\sqrt{12x^{13}}$ | 41. $\sqrt[4]{32x^9}$ |
| 34. $\sqrt{50x^7y^4}$ | 42. $\sqrt[3]{24x^5y^{10}}$ |
| 35. $\sqrt{15x^3y^9z^5}$ | 43. $\sqrt[3]{4000x^{91}}$ |
| 36. $\sqrt{20x^5y^9}$ | |

Keep on simplifying!

$$44. \sqrt{\frac{45}{80}}$$

$$45. \sqrt[3]{\frac{16}{27}}$$

$$46. \sqrt[3]{\frac{24}{81}}$$

$$47. \sqrt[4]{\frac{32}{162}}$$

$$48. \sqrt{\frac{x^{10}}{x^6}}$$

$$49. \sqrt[3]{\frac{y^{11}}{y^2}}$$

$$50. \sqrt[5]{\frac{x^{12}}{x^7}}$$

$$51. \sqrt[6]{\frac{y^{30}}{y^{12}}}$$

$$52. \sqrt{\frac{50x^7}{98x^3}}$$

$$53. \sqrt[3]{\frac{15x^5}{40x^3}}$$

$$54. \sqrt{\frac{54x^5}{450x}}$$

$$55. \sqrt[4]{\frac{10x^9}{32x}}$$