

SM2—test review answers for unit 3

1. $\frac{8r^4}{a}$

2. $\frac{2}{y^7}$

3. $\frac{x^9}{27}$

4. $a^{\frac{11}{12}}$

5. $p^{\frac{8}{9}}$

6. $\frac{1}{\frac{3}{x^{14}}}$

7. $16x\sqrt{2x}$

8. $3m^3\sqrt{2m^2}$

9. $-9\sqrt{5}$

10. $2\sqrt{30}$

11. 9

12. $18xy^2\sqrt{x}$

13. $6x^2y\sqrt{14x}$

14. $2xy^2\sqrt[3]{5y^2}$

15. 32

16. $2\sqrt[7]{(ab)^2}$ or $2(\sqrt[7]{ab})^2$

17. $(7r)^{\frac{1}{4}}$

18. $9x^{\frac{7}{3}}$

19. \sqrt{r}

20. $\sqrt[10]{t^9}$

21. 0

22. $12\sqrt{5} - 9\sqrt{3}$

23. 0

24. $20\sqrt{3} + 12\sqrt{2}$

25. 22

26. -72