

Midterm Review (Chapters 5-6) Answer Section

MULTIPLE CHOICE

1. B Sec. 6.2

12. $g(x) = -2\sqrt[3]{x-3} + 5$
Sec. 5.3

SHORT ANSWER

2. -4
Sec. 5.1

13. $g(x) = \frac{4}{5}\sqrt[4]{x+4} + \frac{11}{5}$
Sec. 5.3

3. $5^{2/3}$
Sec. 5.2

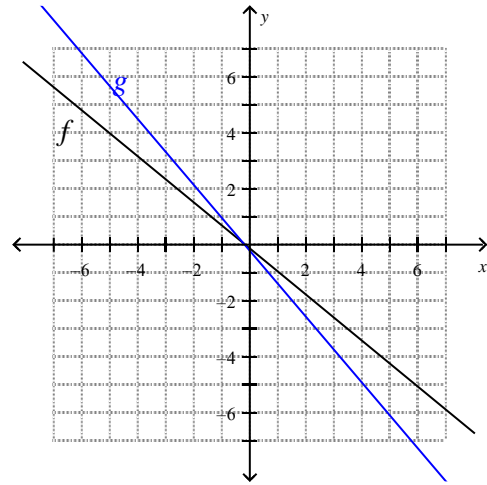
14. $x = 6.8$
Sec. 5.4

4. $\frac{7}{4}$
Sec. 5.2

15. $x = 3$
Sec. 5.4

5. $\frac{\sqrt[4]{36}}{3}$
Sec. 5.2

16. $g(x) = -\frac{6}{5}x - \frac{1}{5}$



Sec. 5.6

6. $\frac{24 - 8\sqrt{6}}{3}$
Sec. 5.2

7. $8(5^{1/3})$
Sec. 5.2

8. $-13(7^{1/4})$
Sec. 5.2

9. $2x^4q^2$
Sec. 5.2

17. yes; $g(x) = 3\sqrt{\frac{x+7}{4}}$

Sec. 5.6

10. $2m^3n^3p^4\sqrt[6]{m^3p}$
Sec. 5.2

18. $\log_9 \frac{1}{81} = -2$
Sec. 6.3

11. $\sqrt[14]{v^9}$
Sec. 5.2

19. -2
Sec. 6.3

20. $\frac{1}{2}$
Sec. 6.3

21. 14
Sec. 6.3

22. $y = e^x - 9$
Sec. 6.3

23. 0.312
Sec. 6.5

24. $4\log_3 x - \log_3 7 - \log_3 y$
Sec. 6.5

25. $\frac{1}{4}\log_7 3 + \frac{1}{4}\log_7 x$
Sec. 6.5

26. $\ln 192$
Sec. 6.5

27. $\log \frac{64}{x^5}$
Sec. 6.5

28. 1.730
Sec. 6.5

29. $x = -2$
Sec. 6.6

30. $x = 629$
Sec. 6.6

31. $x = 8$
Sec. 6.6

32. $x = -6$
Sec. 6.6

33. $g(x) = -4^{x-5}$
Sec. 6.4

34. $g(x) = \log_{1/6} 8x + 6$
Sec. 6.4

35. $y = 0.6(5^x)$
Sec. 6.7