

**Test 1 Review
Answers**

- 19.1. $\frac{7}{4}$
- 19.2. $31x^2yz$
- 19.3. 9
- 19.4. $x = \frac{24}{7}$
- 19.5. 90 sq. units
- 19.6. -19
- 19.7. 2
- 19.8. $\frac{3}{2}$
- 19.9. 9
- 19.10. 25π
- 19.11. -92
- 19.12. 4
- 19.13. 4
- 19.14. 14
- 19.15. $\frac{3y^3}{2}$
- 19.16. $\frac{1}{3ab}$
- 19.17. 225
- 19.18. $\frac{4}{3}$
- 19.19. 1
- 19.20. $15x+5$
- 19.21. $x = \frac{8}{5}$
- 19.22. $\frac{7b^2}{3a^3}$
- 19.23. 22
- 19.24. $\frac{a^{36}}{81}$
- 19.25. $\frac{16x^{16}}{y^8}$
- 19.26. 9^5
- 19.27. $12stx$
- 19.28. 225
- 19.29. 1
- 19.30. $5x-31$
- 19.31. $x=8/5$
- 19.32. y^{-2}
- 19.33. 36
- 19.34. $\frac{1}{s^{30}t^{10}}$
- 19.35. $-5x+9$
- 19.36. 1600
- 19.37. $-4x^3+2x$
- 19.38. a^7
- 19.39. $\frac{1}{x^9y^6}$
- 19.40. $x = -\frac{16}{3}$
- 19.41. $\frac{8}{y^6}$
- 19.42. 2
- 19.43. $8x$
- 19.44. -280
- 19.45. 41
- 19.46. $-5a+7$
- 19.47. 5
- 19.48. -127
- 19.49. m^4
- 19.50. $\frac{49}{f^6}$
- 19.51. 2
- 19.52. $4^2 \cdot 7^4$
- 19.53. $\frac{1}{3}$
- 19.54. $x = 3$
- 19.55. 225
- 19.56. $x = -15/22$
- 19.57. $s = -6$
- 19.58. $x = \frac{17}{5}$
- 19.59. $x = \frac{3}{2}$
- 19.60. -1

MATH093 Test 1 Review Answers Cont.

19.61 $-10x^2yz$	19.81 $-x+7$	19.101 $x \leq \frac{1}{18}$
19.62 12 units ²	19.82 x^3	19.102 $x > 8$
19.63 $z \geq -4$	19.83 $y = -5$	19.103 $x > -7$
19.64 $t = -6$	19.84 $8x$	19.104 $y \leq -4$
19.65 25π units ²	19.85 $k = \frac{5}{2}$	19.105 $x = 5$
19.66 $y = 0$	19.86 $\frac{1}{9a^6}$	19.106 $\frac{16}{1}$ or 16:1
19.67 -16	19.87 2.8×10^{-4}	19.107 210 drops
19.68 yes	19.88 $x \geq \frac{10}{43}$	19.108 2124.5 hours
19.69 $x = 0$	19.89 $\frac{x}{4t}$	19.109 $x \leq \frac{12}{5}$
19.70 $\frac{3x^4}{2}$ or $\frac{3}{2}x^4$	19.90 $\frac{1egg}{2chickens}$	
19.71 $z = 2$	19.91 $n(n+1) = 42$	
19.72 4,110,000	19.92 $7x - 2z$	
19.73 $\frac{3a^3}{b^6}$	19.93 $\frac{6}{1}$ or 6:1	
19.74 no solution	19.94 $8t$	
19.75 22 units	19.95 $x \leq \frac{12}{5}$	
19.76 $\frac{x^{20}}{16}$	19.96 8 ft x 12 ft	
19.77 $w > 1$	19.97 $\frac{10}{1}$ or 10:1	
19.78 $t = 0$	19.98 $x - 11 = 35$	
19.79 $3y - 1$	19.99 $x = 19$	
19.80 $t = \frac{28}{3}$	19.100 28 bolts	