

Math 1201 Sample Midterm Exam 2017 – Answers

Multiple Choice

- 1. D 16. A
- 2. B 17. C
- 3. B 18. D
- 4. D 19. A
- 5. B 20. A
- 6. C 21. D
- 7. A 22. B
- 8. B 23. D
- 9. A 24. B
- 10. B 25. D
- 11. B 26. C
- 12. D 27. D
- 13. B 28. A
- 14. C 29. D
- 15. A 30. A

Constructed Response

- 31. GCF = 45 32. 1536 ft²
- 33. 24 hamburgers
- 34. $-8^{\frac{3}{2}}$, $-3\sqrt{6}$, $2\sqrt[3]{7}$, $4\sqrt{3}$
- 35a) 4 b) $\frac{64}{27}$ c) $-\frac{1}{8}$
- 36a) $x^8 y^{11}$ b) $x^{\frac{17}{12}}$ c) $\frac{x^4}{y^6}$ d) $x^{\frac{3}{10}} y^{\frac{1}{4}}$
- 37a) $(x - 7)(x + 2)$ b) $(2x + 3)(4x - 1)$
c) $2(3x + 2)(3x + 2)$
- 38a) $12x^2 - 9xy + 7x + 6y - 10$
b) $-3g^4 - 7g^3 + 10g^2 + 18g - 8$
- 39. $16x^2 + 46x + 15$
- 40. Domain: $(-3, 1]$ Range: $[-4, 0]$
- 41a) $C(g) = 1.5g + 50$
b) independent = # gigabytes downloaded
dependent = total cost
c) \$80, the cost for 20 gigabytes
d) 57 gigabytes costs \$135.50
e) linear = each variable has 1 as exponent
- 42a) $(-2, 0)$ b) $(0, 6)$
c)

