

Math 1050 Final Exam Answer Key

Fall 2018

1. $-5x^2y + (\sqrt{3} - 2)x + 2 \cdot 3^x + 4^x$

2. $\frac{y^{10}z^8}{x^3}$

3. 125

4. $37 + 2\sqrt{15}$

5. $x - 3$

6. a) 16 b) 12

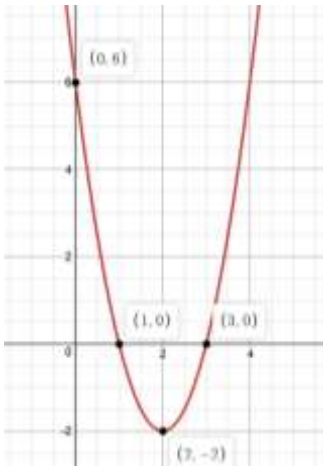
7. $\left[-\frac{3}{2}, \infty\right)$

8. $2x + h - 2$

9. a) $(-\infty, 1] \cup [3, \infty)$ b) $[1, \infty)$ c) 1 d) $\{-5, -1, 3\}$

10. $y = -\frac{3}{2}x + 4$

11. Vertex (2,-2), opens up; x-intercepts: (1,0), (3,0); y-intercept: (0,6)



12. $\{-1, 1\}$

13. $C = \frac{D^2}{AD-B}$

14. The width should be $3\sqrt{3}$ inches.

15. $\{-1 \pm i\}$

16. $\{-8, 1\}$

17. $\left(-\frac{2}{3}, \frac{4}{3}\right)$

18. $(-\infty, -3) \cup (0, 3)$

19. The movie theater sold 45 adult tickets and 15 children's tickets.

20. a.) 5 **b.) -2** c.) $\frac{1}{2}$

21. a.) 1.5 b.) 1.2 c.) 1.4

22. $x = -1$

23. $\cos(4) < 0 < \sin(3) < \sin(1)$

24. $x = \frac{5}{\tan(41^\circ)}$