

**MAT 055 Practice Test Answer Key
Chapters 13 Test**

1. GCF = $3y$
Factored = $3y(2x^2 + x - 2y)$
2. GCF = $13y^2$
Factored = $13y^2(y - 4)$
3. GCF = $2y$
Factored = $2y(10y^3 + 4y^2 + 7y + 1)$
4. $(x^2 + 6)(x + 2)$
5. $(4y^2 + 5)(y - 3)$
6. $(x - 3)(x + 7)$
7. $(x^2 - 6)(x + 8)$
8. $(x + 2)(x + 9)$
9. $(y - 6)(y - 5)$
10. $(n + 9)(n - 7)$
11. $(z + 3)(z - 5)$
12. $(9x + 2)(x + 2)$
13. $(9x - 8)(x - 4)$
14. $(7x + 8)(x - 7)$
15. $4(2x - 1)(x + 5)$
16. $(x - 12)(x + 12)$
17. "Prime"
18. $(8y - 9)(8y + 9)$
19. $(10 - z)(10 + z)$
20. $(x + 15)^2$
21. "Prime"
22. $5(x + 3)^2$
23. $(8x - 7)^2$
24. $(z + 7)(z^2 - 7z + 49)$
25. $(x - 8)(x^2 + 8x + 64)$
26. $(5y + 1)(25y^2 - 5y + 1)$
27. $y = -17, 0$
28. $y = \frac{8}{3}, \frac{6}{7}$
29. $x = 0, 3$
30. $y = -\frac{7}{6}, \frac{7}{6}$
31. $x = -\frac{1}{6}, 7$
32. $x = -5, 11$