

MAT 090 – Answer Key – Practice Exam 7

1. $7(p - 3q)$
2. $9xy(1 - 2y)$
3. $(6r - 1)(2s + r)$
4. $(r + 4s)(r - 3s^2)$
5. $(r + 3)(r - 3)$
6. $(5x - 9y^2)(5x + 9y^2)$
7. $(x + 5)(x - 2)$
8. $(x - 4)(x - 5)$
9. $(3y + 2)(5y - 3)$
10. $(x - 4)(8x + 5)$
11. $(x^6y^3 - 2)(x^6y^3 - 6)$
12. $(2a^2b^{10}c^3 - 3)(3a^2b^{10}c^3 - 7)$
13. $(x - 4y^2)(x^2 + 4xy^2 + 16y^4)$
14. $3b(a + 5)(a - 5)$
15. $3a(a - 3)(4a - 5)$
16. $(2a - 3)(a - 1)$
17. $5n(n + 10)(n - 5)$
18. $(3x + y)(3x - y)(9x^2 + y^2)$
19. $\{-2, 5\}$
20. $\{-9, 3\}$
21. $\{-6, 6\}$
22. $\{5/3\}$
23. $\{0, 4\}$
24. $\{-4, 7\}$
25. $W = 6, L = 9$
26. 6 seconds