SM2 unit 5 test review—factoring

1. Writing the answer as a multiplication problem. Find GCF then use grouping.

2. $5x(2x - 1)$

3. $-3(4w^3 - 7)$

4. $4pq(3p^4 + 9p^3 + 2)$

5. $(3m + 1)(5m^2 - 2)$

6. $(t - 2)(4r + 1)$

7. $2n(n^2 + 6)(3n + 5)$

8. When there are no numbers that times to a and c but also add to b.

9. $(v - 7)(v + 3)$

10. $(w + 5)(w - 2)$

11. prime

12. $(m - 3)^2$ or $(m - 3)(m - 3)$

13. $5(p^2 - 5p + 12)$

14. $3r(r + 7)(r - 2)$

15. $-4(k + 6)(k - 1)$

16. $(4n + 3)(n - 2)$

17. prime

18. $(2q - 5)(q - 4)$

19. $(3a + 4)^2$ or $(3a + 4)(3a + 4)$

20. $-5(2y + 1)(y - 4)$

21. $(2x + 1)(3x - 4)$

22. $2(x + 6)(2x + 3)$

23. $(4k - 1)(2k + 9)$

24. both terms are perfect squares and it is a subtract question

25. $(z + 2)(z - 2)$

26. prime

27. $(7m - 4)(7m + 4)$

28. $(8 + t)(8 - t)$

29. $3(5u + 2)(5u - 2)$

30. $2(3x + 10)(3x - 10)$