Math 10

Lesson 2–5 Answers

Assignment – Part A

1. $4ab^2(3a^2b^5 + ab^3 - 2)$
2. $5cd(c^2 + 14cd + 12d^2)$
3. $3(3x - 10y)(3x + 10y)$
4. $(n - 10p)(n - 3p)$
5. $(x - 1)^2(x + 1)^2$
6. $(3x - 1)(x + 2)$
7. $3x^3y^3(6x + 3y - 1)$
8. $4(2w + 1)(w - 6)$
9. $(d + 3)^2$
10. $(3x - \frac{1}{2}y)(3x + \frac{1}{2}y)$
11. $5xy(x + y)(9x - 2y)$
12. $b(50a + 9b)$
13. DNF → no 2 #s add to 1 & multiply to 20
14. $(x + 11)(x - 1)$
15. $s(r + 2s)(r + s)$
16. DNF → no 2 #s add to 4 & multiply to 5
17. $5t(2s + 3)$
18. $(7w + 10)(x - w)$
19. $(x - 5)(x + 5)(x^2 + 25)$
20. $(3a + 2b)(a - 4b)$
21. $(x + 2)^3(x - 2)$
22. $(x - 11)(x + 1)$
23. $(j - 13)(j + 13)$
24. $(3x + y)(2x + 7y)$
25. $(a - 2x)(a + 12x)$
26. $(3x^2 - 5)(2x + 1)$
27. $(4a - b)(3a - b)$
28. $(9b - 8)(9b + 8)$
29. $(5x^2 + 3y - 1)(8 - x)$
30. DNF → not a difference of squares
31. $2(x^4 + 5x^2 + 36)$
32. $(2x - 1)(2x + 1)(4x^2 + 1)$
33. $(3m^2 + 4)(m + 7n)$
34. $-3(y - 27)(y + 2)$
35. $2w(3w - 5)(w - 3)$
36. $(3c + 4d)(2c - 3d)$
37. $(2x + 5)^2$
38. $(5x - 2y)^2$
39. $mn^2(m - 2)^2$
40. $2x(x + 3)^2$

Assignment – Part B

1. $(40 - 2x)$; $(18 + x)$

2. $12x + 20y$. Factor the expression and then multiply the length of a single side (factor) by 4.

3. a) rectangle b) $2x - 1$ by $4x + 7$

4. a) $h = -5(t - 6)(t + 1)$ b) 61.25 m