

5.1 – 5.2 Quiz Review

Learning Target 5A

1. $10x^2y^3(-5xy)$

2. $\left(\frac{a^2b}{a^{-8}b^2}\right)^{-1}$

3. $\frac{2mn^2(3m^2n)^2}{12m^3n^4}$

4. $\frac{x^{-2}y}{x^4y^{-1}}$

Learning Target 5B

5. $(6x^2 - 3x + 2) - (4x^2 + x - 3)$

6. $(-2f^2 - 3f - 5) + (-2f^2 - 3f + 8)$

7. $(n^2 + 5n - 1)(2n^2 - 3)$

8. $(3w + 1)^2$

Learning Target 5C

$$9. \frac{60a^2b^3 - 48b^4 + 84a^5b^2}{12ab^2}$$

$$10. \frac{18a^3 + 30a^2}{3a}$$

Use long division to find the quotient.

$$11. (2x^2 - 5x - 3) \div (x - 3)$$

$$12. (t^3 - 6t^2 + 1) \div (t + 2)$$

Use synthetic division to find the quotient.

$$13. (n^3 + 3n^2 - 5n - 4) \div (n + 4)$$

$$14. (g^4 - 3g^2 - 18) \div (g - 2)$$