

Mathematics 9

Section 5.4 - Subtracting Polynomials

When we subtract polynomials, there are a few extra procedures that must be kept in mind.

Remember!

The Distributive Property

$$5(4n-8)$$

$$20n-40$$

MULTIPLY THE TERM OUTSIDE OF THE BRACKETS BY EVERYTHING INSIDE THE BRACKETS.

The Distributive Property II

$$-3(5n-4)$$

$$-15n+12$$

New!

$$(-2n^2 + n - 1) - (n^2 - 3n + 2)$$

JUST DROP BRACKETS →

$$\begin{array}{l} -2n^2 + n(-1) - n^2 + 3n(-2) \\ -3n^2 + 4n - 3 \end{array}$$

APPLY DISTRIBUTIVE PROPERTY WITH THE -1.

Complete

#21-30 ON BACK OF

§5.3 NOTES

Homework: pg.

$$(-6n^2 + 2n - 7) - 1(3n^2 - 6n - 8)$$

$$\underline{-6n^2} \boxed{+2n} - \underline{7} - \underline{3n^2} \boxed{+6n} + \underline{8}$$

$$-9n^2 + 8n + 1$$

$$-3(2n^2 + 6n - 1) - 2(4n^2 + 3n + 2)$$

$$\underline{-6n^2} - \underline{18n} \textcircled{+3} - \underline{8n^2} - \underline{6n} \textcircled{-4}$$

$$-14n^2 - 24n - 1$$