

pg. 571: 1-6 (411); 24-32 (411)

① NO

② NO

③ linear
binomial

④ cubic
monomial

⑤ quadratic
Binomial

⑥ cubic
trinomial

⑦ cubic
trinomial

⑧ constant
monomial

④ 2x, linear
monomial

⑤ $20m^3$, cubic
monomial

⑥ $-3w+7$, linear
binomial

⑦ -16, constant
monomial

⑧ $5y^2-3y+8$
quadratic
trinomial

⑨ $11y^3-14$
cubic binomial

⑩ $5x^3-2y-6$
cubic trinomial

⑪ $7b^3-4c^3$
cubic binomial

⑫ $9w^3+14w^2$
cubic binomial

10.1 cont

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Hint : Combine Like Terms.

$$(5x^3 - 2x + x^2 + 7) + (3x^2 + 7 - 4x)$$

$$\underline{5x^3} - \underline{2x} + \underline{x^2} + \underline{7} + \underline{3x^2} + \underline{7} - \underline{4x}$$

$$\underline{\underline{5x^3 + 4x^2 - 2x + 14}}$$

Side thought
(3) + (4)
same as
3 + 4 = 7
so () Don't
matter

Comb. like
Terms &
S.F.

ex2) $(\cancel{2x^2} + \cancel{x} - 5) + (\cancel{x} + \cancel{x^2} + 12)$

$$2x^2 + x - 5 + x + x^2 + 12$$

$$\underline{\underline{3x^2 + 2x + 7}}$$

Subtracting

$$(-2x^3 + 5x^2 - 4x + 8) - (-2x^3 + 3x - 4)$$

$$\begin{array}{r} \cancel{-2x^3} + \underline{5x^2} - \cancel{4x} + 8 \quad \underline{+2x^3} - \underline{3x} + \underline{4} \end{array}$$

$$\underline{\underline{5x^2 - 7x + 12}}$$

$$\text{ex4)} \quad (3x^2 - 3x + 3) - (2x^2 - x - 4)$$

$$\underline{3x^2} - \underline{5x} + \underline{3} - \underline{2x^2} - \underline{x} + \underline{4}$$

$$\underline{\underline{x^2 - 4x + 7}}$$

If we Add Poly

- Drop the $()$ +
Comb like Terms.

If we Subt. Poly.

- Dist. the Neg. through
the Second Poly.
- Drop the $()$ +
Comb. like terms.

O.T.L.
Pg 522:
33-50(all)
🕒 for the Ng.