

## MATH 017 HOMEWORK 15 Questions

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[ Run: 03/24/2015 at 7:3 Seed: 6477. Order of Checkable Items: List.]

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The idea in this HOMEWORK is

**Hw 15-1.** Reduce the following polynomial into standard *descending* powers:

$$-3x^2 - 7x^{-5} - 7x^1 - 4x^0 - 6x^2 + 9x^{-5}$$

**Hw 15-2.** Identify

$$x^2 - 3x - 5 + 2x^{-1} + 4x^{-2} \Big|_{x:=+2}$$

**Hw 15-3.** Identify

$$x^3 - 3x^2 - 5x + 2 \Big|_{x:=+3}$$

**Hw 15-4.** Reduce the following polynomial into standard *ascending* powers:

$$-6h^{-2} - 7h^4 + 5h^1 + 3h^0 - 6h^{-2} + 9h^4$$

**Hw 15-5.** Identify

$$+3 - 7h + 5h^2 \Big|_{h:=0.02}$$

**Hw 15-6.** Identify

$$+5x^3 + 7x^2 + 5x + 4 \quad \boxplus \quad +2x^4 + x^3 + 7x^2 + 5x$$

**Hw 15-7.** Identify

$$5x^5 + 7x^4 + 3x^3 + 4x^2 + \left[ 2x^3 + x^2 + 7x + 5 \right]$$

**Hw 15-8.** Identify

$$+5x^3 + 7x^2 + 5x + 4 \quad \boxminus \quad +2x^4 + x^3 + 7x^2 + 5x$$

**Hw 15-9.** Identify

$$-5x^4 - 2x^3 + 5x^2 + 4x \quad \boxminus \quad -4x^3 - x^2 + 6x + 5$$

*Hw* **15-10.** Identify

$$5h^2 - 7h^3 + 3h^4 - 4h^5 - \left[ -2h^3 - h^4 + 7h^5 + 5h^6 \right]$$

*Hw* **15-11.** Identify

$$5x^4 + 7x^3 + 3x^2 + 4x - \left[ 2x^5 + x^4 + 7x^3 + 5x^2 \right]$$