

2.1 - HW

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6) S.F.: $x^3 + 2x^2 + 4x - 7$

L.C.: 1

Degree: 3

of terms: 4

Name: Cubic

7) S.F.: $3x^2 + 5x - 4$

L.C.: 3

Degree: 2

of terms: 3

Name: Quadratic

8) S.F.: $-4x^3 + 5x^2$

L.C.: -4

Degree: 3

of terms: 2

Name: Cubic

9) S.F.: $4x^4 + 8x^2 - 3x + 1$

L.C.: 4

Degree: 4

of terms: 4

Name: Quartic

10) $(15x^2 - 3x + 11) + (2x^3 - x^2 + 6x + 1)$
 $2x^3 + 14x^2 + 3x + 12$

11) $(2x^2 + 12x - 1) + (x^2 + 4)$
 $3x^2 + 12x + 3$

12) $(3x^2 - 5x) - (x^2 + x - 4)$
 $2x^2 - 6x + 4$

13) $(x^2 - 3x + 7) - (6x^2 + 4x + 12)$
 $-5x^2 - 7x - 5$

23) S.F.: $2x^4 + 3x^3 + x^2 - 7x$

L.C.: 2

Degree: 4

of terms: 4

Name: Quartic

24) S.F.: $-4x^4 + 6x + 78125$

L.C.: -4

Degree: 4

of terms: 3

Name: Quartic

25) S.F.: $2x^3 + 10x - 9$

L.C.: 2

Degree: 3

of terms: 3

Name: Cubic

26) S.F.: $2x^6 - 4x^4 + 3x^2 - 1$

L.C.: 2

Degree: 6

of terms: 4

Name: Sextic

(over)

$$27) \begin{array}{l} (x^2 - 3x + 4) + (x^3 + 3x - 4) \\ x^3 + x^2 \end{array}$$

$$28) \begin{array}{l} (x^2 - 3x + 4) - (x^3 + 3x - 4) \\ -x^3 + x^2 - 6x + 8 \end{array}$$

$$29) \begin{array}{l} (5y^3 - 2y^2 - 1) - (y^2 - 2y - 3) \\ 5y^3 - 3y^2 + 2y + 2 \end{array}$$

$$30) \begin{array}{l} (2y^2 - 5y + 3) + (y^2 - 2y - 5) \\ 3y^2 - 7y - 2 \end{array}$$