Answers

J10 page 42 - REV

[1.1] $x^3 + x^2 - 3\,x - 6,\ x - 2,\ x^2 + 3\,x + 3,\ 4$

[1.2] $6\,x^4 + x^3 - 10\,x^2 + 7\,x + 6,\ 2\,x + 3,\ 3\,x^3 - 4\,x^2 + x + 2,\ \frac{9}{4}$

[1.3] $2\,x^3 + 5\,x^2 - 1,\ x^2 + 2\,x - 1,\ 2\,x + 1,\ 1 - 2\,x$

[2.1] $3\,x^2 + 2\,x + 1,\ 3\,x - 4,\ x + 2,\ \frac{16}{9}$

[2.2] $x^3 - x^2 + x - 1,\ x + 2,\ x^2 - 3\,x + 7,\ 4$

[2.3] $4\,x - 5,\ x + 2,\ 4,\ 4$

[2.4] $x^4 - 2\,x^2 - x + 8,\ x^2 - x - 2,\ x^2 + x + 1,\ x + 2$

■ p. 47

[1.1] $\frac{3\,a^2\,b^3\,c}{9\,a\,b^4\,c^3} = \frac{a}{3\,b\,c^2}$

[1.2] $\frac{x^2 - 1}{x^3 + 1} = \frac{x - 1}{x^2 - x - 1}$

[1.3] $\frac{a^3 - a^2 - 2\,a}{a^3 - 4\,a} = \frac{1 + a}{2 + a}$

[2.1] $\frac{1 - x - x^2 + x^4}{(x + 1)\,(x - 1)},\ \frac{1 + x^3}{(x + 1)\,(x - 1)}$

[2.2] $\frac{x^2}{x\,y\,z},\ \frac{y^2}{x\,y\,z},\ \frac{z^2}{x\,y\,z}$

■ p. 48

[3.1] $\frac{1}{1 + x}$

[3.2] 1

[3.3] $\frac{1}{1-a}$

[3.4] $\frac{x}{1-x+x^2}$