collegato a pag. 321 ud. 10

Soluzione degli esercizi dal n. 52 al n. 62 pag. 321

52 $[Q(x) = x^2 + b^2;\ R(x) = -2b^3x - 3b^4;\ Q(b) = 4b^2 - xb + 5x^2;\ R(b) = 5x^3b - 4x^4]$

53 $[Q(x) = 3x - y;\ R\,(x) = 7xy^2;\ Q(y) = -y - 4x;\ R = 14x^3]$

54 $\left[Q(x) = \frac{1}{2}x^3 - 2ax^2 + a^3;\ R(x) = a^4x;\ Q(a) = a^3 + a^2x - ax^2 + \frac{1}{2}x^3;\ R(a) = -ax^4\right]$

55 $\left[Q(x) = -x^2 - 3ax + a^2;\ R = a^4;\ Q(a) = \frac{4}{3}a^2 - \frac{28}{9}ax - \frac{35}{27}x^2;\ R(a) = \frac{17}{27}ax^3 + \frac{8}{9}x^4\right]$

56 $[Q(x) = 2x - 3y;\ R(x) = -9xy^2 + 4y^3;\ Q(y) = y - 19x;\ R(y) = 59x^2y + 21x^3]$

57 $\left[Q(x) = x^3 - 2ax^2 + \frac{3}{2}a^2x - \frac{7}{4}a^3;\ R(x) = \frac{9}{4}a^4x - \frac{23}{4}a^5;\ Q(a) = 4a^3 + 5a^2x + 13x^2a + 23x^3;\ R(a) = -52x^4a - 44x^5\right]$

58 $[Q(x) = 3x + 3a;\ R(x) = 5a^2x + 2a^3;\ Q(a) = 5a + 12x;\ R(a) = 16ax^2 - 9x^3]$

59 $\left[Q(a) = -\frac{5}{4}a + \frac{1}{16}b;\ R(a) = \frac{85}{64}ab^2 + \frac{15}{32}b^3;\ Q(b) = b;\ R = \frac{5}{4}a^3\right]$

60 $\left[Q(x) = \frac{3}{2}x^3 + \frac{7}{4}ax^2 + \frac{9}{4}a^2x + 2a^3;\ R = 0;\ Q(a) = 2a^3 + \frac{9}{4}a^2x + \frac{7}{4}ax^2 + \frac{3}{2}x^3;\ R = 0\right]$

61 $\left[Q(x) = \frac{2}{3}x;\ R(x) = -\frac{1}{2}xy^2 + \frac{3}{4}y^3;\ Q(y) = -\frac{3}{2}y + \frac{5}{3}x;\ R(y) = 3x^2y - 2x^3\right]$

62 $\left[Q(x) = 3x^4 - 2x^3y + 2xy^3 - y^4;\ R(x) = 9xy^5 - 3y^6;\ Q(y) = -\frac{4}{3}x^2y^2 - \frac{14}{3}x^3y - \frac{5}{9}x^4;\ R(y) = 16x^5y + \frac{64}{9}x^6\right]$