

## Operazioni con i polinomi

$$78. \quad (a + b) \cdot (a - b) - b \cdot (a - b) = \quad [a^2 - ab]$$

$$79. \quad (a - b) \cdot (a + 1) - a \cdot (a + 1) = \quad [-ab - b]$$

$$80. \quad (2x - 2y) \cdot (2x - 2y) - 2x \cdot (x - y) = \quad [2x^2 - 6xy + 4y^2]$$

$$81. \quad 3a^2 \cdot (a + b) - 3b \cdot (a^2 - 2b) = \quad (3a^3 + 6b^2)$$

$$82. \quad 4x^3 : [4x^2(x - y) + 2x \cdot (2xy)] = \quad [1]$$

$$83. \quad -2x^2 + 3x(x + y) - 3y(x - y) - (x - 2y)(x - 2y) + y^2 = \quad [4xy]$$

$$84. \quad (6x^2y - 9xy^2 + 3x^2y - 5x^2y - 2xy^2) + 9(+2xy^2 - xy^2) = \quad [4x^2y - 2xy^2]$$

$$85. \quad (2a - 3b + 5c) - (6a - b - 2c) + 4(-a + b - c) = \quad [-8a + 2b + 3c] (*)$$

$$86. \quad \frac{1}{3}a^2 \cdot \left(\frac{1}{2}a + b\right) - \frac{1}{2}b \cdot \left(\frac{1}{3}a^2 + \frac{1}{2}b\right) = \quad \left[\frac{1}{6}a^3 + \frac{1}{6}a^2b - \frac{1}{4}b^2\right]$$

$$87. \quad \left(\frac{1}{2}a + 2b\right) + 2 \cdot (a + b) = \quad \left[\frac{5}{2}a + 4b\right]$$

$$88. \quad -\left(\frac{1}{2}a + 2b\right) - 2 \cdot (a - b) = \quad \left[-\frac{5}{2}a\right]$$

$$89. \quad \left(x + \frac{2}{3}y\right) \cdot \left(y - \frac{1}{3}x\right) - \frac{1}{3}x \cdot \left(-\frac{2}{3}y - x\right) = \quad xy + \frac{2}{3}y^2$$