

**ESPRESSIONI CON I POLINOMI:****(risolvi, a tua scelta, almeno 6 di queste espressioni)**

- 589**  $2 \cdot (x - a) + 1 - (x - a)$ . [x - a + 1]
- 590**  $3 \cdot (3a + 2b) + 2 - 2 \cdot (a + 3b)$ . [7a + 2]
- 591**  $(3x + 2y) \cdot 2xy - (3x + 2y) \cdot (2xy - 2)$ . [6x + 4y]
- 592**  $(a + 1) \cdot (a + 2) - (a - 1) \cdot (a - 2)$ . [6a]
- 593**  $(2a + b) \cdot (a + 2b) - (a - b) \cdot (2a - 2b)$ . [9ab]
- 594**  $(x - 3) \cdot (x - 2) + (x - 1) \cdot (x - 4)$ . [2x<sup>2</sup> - 10x + 10]
- 595**  $(x + y) \cdot (x - y) - (x^2 - y^2) \cdot (1 - x)$ . [x<sup>3</sup> - xy<sup>2</sup>]
- 596**  $(2a - b) \cdot (3a - 2b) + (a - 3b) \cdot (-a + b)$ . [5a<sup>2</sup> - 3ab - b<sup>2</sup>]
- 597**  $(2a + b) \cdot (-3a + b + 1) - (a + b) \cdot (a - b - 1)$ . [-7a<sup>2</sup> - ab + 3a + 2b<sup>2</sup> + 2b]
- 598**  $(a + b + c) \cdot (-2a + 2b + 2c) + (2a + b) \cdot (-c + a)$ . [2b<sup>2</sup> + 2c<sup>2</sup> + ab - 2ac + 3bc<sup>2</sup>]
- 599**  $(3c + ab^2) \cdot (ac - b) + (-3ab) \cdot \left(abc - \frac{1}{3}b^2\right) - 3c \cdot (ac - b)$ . [-2a<sup>2</sup>b<sup>2</sup>c]
- 600**  $\left(-\frac{3}{4}x^2y + \frac{1}{3}xz\right) \cdot \left(\frac{8}{9}y - \frac{5}{3}z\right) - \frac{10}{3}x \cdot \left(\frac{9}{5}xyz - \frac{1}{6}z^2 + \frac{4}{45}yz\right)$ . [-\frac{2}{3}x^2y^2 - \frac{19}{4}x^2yz]
- 601**  $5x \cdot \left(\frac{1}{3}x + \frac{3}{4}y\right) - \frac{9}{2}x^2 \cdot (1 - x) - \left(-\frac{5}{4}x + \frac{8}{3}y\right) \cdot (x - y)$ . [\frac{9}{2}x^3 - \frac{19}{12}x^2 + \frac{8}{3}y^2 - \frac{1}{6}xy]
- 602**  $\left(\frac{3}{2}ab - \frac{1}{3}ab\right) \cdot \left(\frac{4}{9}a^2b^2 - \frac{12}{5}ab\right) - \left(\frac{1}{2}ab\right) \cdot \left(-\frac{36}{5}ab + \frac{8}{5}ab\right) - \left(\frac{1}{2}ab - \frac{5}{8}a^2b^2\right) \cdot \left(-\frac{8}{5}ab\right)$ . [-\frac{13}{27}a^4b^3 + \frac{4}{5}a^2b^2]
- 603**  $\left(\frac{1}{9}x^4 + x^3y + 3x^2y^2 + 9xy^3 + 9y^4\right) \cdot \left(\frac{1}{3}x^2 - 3xy + 3y^2\right) - \frac{1}{3}x^4 \cdot \left(\frac{1}{9}x^2 - 5y^2\right) - 3y^3 \cdot (9y^3 - x^3 - 5x^2y)$ . [0]