Monomials, Binomials, Trinomials and Polynomial

a. Fill in the blanks to classify the expressions as monomials, binomials, trinomials, or polynomials:

b. $3x^2 - 2x$ is a _____.

c. $5y^3$ is a _____.

d. $4x^2 - 7x + 1$ is a _____.

e. $2a^4b^3 + 3a^2b$ is a _____.

f. $6x^3 - 2x^2 + 4x - 1$ is a _____.

1. Indicate whether the following statements are true (T) or false (F):

a. "$5x^2$" is a monomial. ☐

b. "3a - 2b" is a binomial. ☐

c. "$4x^4 + 7x^3 - 2x^2 + x$" is a polynomial. ☐

d. "5x - 2x" is a trinomial. ☐

2. Match each algebraic expression on the left with its corresponding type on the right (monomial, binomial, trinomial, or polynomial):

Column A	Column B
i. $4x^2 - 3x$	A. Monomial
ii. $5y - 2y^2 + x - 6$	B. Binomial
iii. $2a^3 - 3a^2 + a + 1$	C. Trinomial
iv. $6x^4 - 2x^3 + 3x$	D. Polynomial
V. $8x^5$	E. Polynomial