Polynomial Worksheet 1

Which of the following expressions are polynomials? In case of a polynomial write its degree.

Polynomials	✅ ❌	Degree
(i) $x^3 - 5x + 2$		
(ii) $y^3 - \sqrt{2}y - \sqrt{11}$		
(iii) $6\sqrt{x} + 2$		
(iv) -100		
(v) $4t^2 - \dfrac{5}{7}t + 2\sqrt{7}$		
(vi) $x^3 - \dfrac{5}{x^2} + 2$		
(vii) $\dfrac{3}{7x}$		
(viii) $1 - \sqrt{5x}$		
(ix) $\dfrac{3}{2y^{-2}} + 5y + 7$		
(x) $2\sqrt{x} + x^{3 \div 2}$		

Polynomials	✅ ❌	Degree
(xi) $x^5 - 6x^4 + x + 2$		
(xii) $x^3 - \sqrt{11}x$		
(xiii) $7\sqrt[3]{4x} + 2x$		
(xiv) 0		
(xv) $47x^2 - \dfrac{6}{19}x + 3\sqrt{5}$		
(xvi) $t^4 - \dfrac{4}{x^{-1}} + 8$		
(xvii) $\dfrac{2}{x} - x$		
(xviii) $\dfrac{1}{\sqrt{2}}x^2 - \sqrt{2}x + 2$		
(xix) $\dfrac{1}{2x^2} + 2x + 9$		
(xx) $\dfrac{2\sqrt{x} + x^{3 \div 2}}{\sqrt{x}}$		
(xxi) $x^{-2} - 3x^{-1} + 4$		
(xxii) $\dfrac{1}{\sqrt{5}}x^{\frac{1}{2}} + 1$		