

S 7.4#s 11, 12, 15, 16, 18, 24, 30, 47

Fun facts

$$x^n - 1 = (x-1)(x^{n-1} + x^{n-2} + \dots + x + 1)$$

$$x^3 + 1 = (x+1)(x^2 - x + 1)$$

$$x^3 - 1 = (x-1)(x^2 + x + 1)$$

$$x^4 + 2x^2 + 1 = (x^2 + 1)^2$$