## Quiz

 Name1. The real number 4.5783783... (with 783 repeating in its decimal expansion) is a rational number. Express it as a quotient of two positive integers.
2. Complete the square for the quadratic polynomial $x^{2}+3 x-1$. What is the smallest value the polynomial can have? For what value (or values) of $x$ does the polynomial take its smallest value?
3. Factor completely the cubic polynomial $x^{3}-19 x+30$ and the quartic polynomial $x^{4}+4$. (The last polynomial can only have quadratic factors. To find them consider $\left(x^{2}+2\right)^{2}-4 x^{2}$.)
