PolynomialCalculator Integer - number: int <<Interface>> Scalar Rational + add(Scalar): Scalar - numerator: int + mul(Scalar): Scalar + neg(): Scalar - denominator: int + sign(): int + power(int): Scalar +reduce(): Rational Monomial **Polynomial** -exponent: int -monomials: Map<Monomial> -coefficient: Scalar + build(String): Polynomial + add(Monomial): Monomial + add(Polynomial): Polynomia + mul(Monomial): Monomial + mul(Polynomial): Polynomial + evaluate(Scalar): Scalar + evaluate(Scalar): Scalar

+ derivative(): Polynomial

+ derivative(): Monomial

+sign(): int