

No calculators are allowed on this quiz. Please read each question carefully, follow directions and clearly mark your solutions. **Show your work for full credit.**

1. Simplify.

(a) $(a - b)^2$

(b) $(2x + 3)^2$

2. Classify functions below as polynomials or rational functions. If a function is polynomial then find its degree.

(a) $\frac{2}{x}$

(b) $x^2 - 4$

(c) $x^3 + x^{-1} + 3$