

UNIT 3: SOLVING EQUATIONS
Lesson 1: Evaluating Expressions

Example: Evaluate

$$\begin{aligned} \text{a) } & 3x^2 + 4x + 2 \quad \text{for } x=2 \\ & = 3(2)^2 + 4(2) + 2 \\ & = 22 \end{aligned}$$

$$\begin{aligned} \text{b) } & 2(x-3) + y^2 \quad \text{for } x=-1 \text{ and } y=-3 \\ & = 2((-1)-3) + (-3)^2 \\ & = 1 \end{aligned}$$

$$\begin{aligned} \text{c) } & -x^3 + 5x - 3 \quad \text{for } x=-2 \\ & = -(-2)^3 + 5(-2) - 3 \\ & = -5 \end{aligned}$$

- * in the first step, substitute only ← no evaluation
- * always use brackets when substituting

