What's the limit of  $x^2 + x + 1$  as x goes to 5?

- 1) You're given a polynomial. This means you can just replace x with 5 and evaluate.
- 2)  $\lim_{x \to 5} x^2 + x + 1 = 5^2 + 5 + 1 = 25 + 5 + 1 = 30 + 1 = 31$