

## 7B Polynomial Division

1. Divide  $x^3 + 2x^2 - 17x + 6$  by  $(x - 3)$

2. Given that  $f(x) = 4x^4 - 17x^2 + 4$ , write  $f(x)$  in the form:

$$f(x) = (2x + 1)(ax^3 + bx^2 + cx + d)$$

3. Find the remainder when  $2x^3 - 5x^2 - 16x + 10$  is divided by  $(x - 4)$