## PRACTICE 3d:

- (1) Factor  $p_1(x) = x^2 2x + 17$ , given that 1 + 4i is a root.
- (2) Factor  $p_2(x) = x^3 9x^2 + 43x 75$  given that 3 4i is a root.
- (3) Factor  $p_3(x) = x^4 + 8x^3 + 19x^2 + 12x 40$  given that -2 2i is a root.
- (4) Factor  $p_4(x) = x^4 2x^3 + 30x^2 50x + 125$  given that 5*i* is a root.