Question 2	(6 marks)
	(0.11101110)

Consider the function $P(z) = z^4 - 2z^3 + 14z^2 - 8z + 40$, defined over the complex numbers.

(a) Show that (z-2i) is a factor of P(z). (2 marks)

(b) Hence or otherwise, solve the equation P(z) = 0, giving solutions in the form a + bi. (4 marks)