Quadratics – 2023 June AS Math 9709

1. June/2023/Paper_9709/12/No.3

(a)	Express $4x^2 - 24x + p$ in the form $a(x + b)^2 + c$, where a and b are integers and c is to be given in terms of the constant p .
	0.0
(b)	Hence or otherwise find the set of values of p for which the equation $4x^2 - 24x + p = 0$ has no real roots.

June/2023/Paper_9709/12/No.4	
Solve the equation $8x^6 + 215x^3 - 27 = 0$.	[3]
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A0'0'	

2.