

Q	Marking instructions	AO	Marks	Typical solution
4	Recalls that the discriminant must be negative, seen anywhere in solution	1.2	B1	<p>For no real solutions the discriminant must be negative</p> $4^2 - 4 \times 9 \times p^2 < 0$ $p^2 > \frac{4}{9}$ $p > \frac{2}{3} \text{ or } p < -\frac{2}{3}$
	Substitutes 9, 4 and p^2 into the expression $b^2 - 4ac$ PI	1.1a	M1	
	Deduces correct critical values of $\frac{2}{3}$ and $-\frac{2}{3}$	2.2a	A1	
	Obtains two correct inequalities for p	2.5	A1	
Question 4 Total			4	