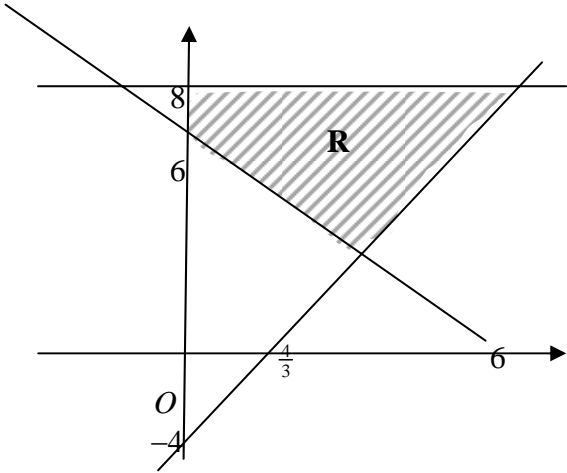


Question Number	Scheme	Marks
1.		<p>(a) B1 B1 B1 (3)</p> <p>(b) B1 (1)</p> <p>[4]</p>
2.	$b^2 - 4ac > 0$ $16p^2 - 36 > 0 \quad 4p^2 - 9 > 0 \quad \text{or} \quad p^2 > \frac{9}{4}$ $(2p - 3)(2p + 3) > 0$ $p < -\frac{3}{2} \quad \text{and} \quad p > \frac{3}{2}$	<p>M1A1</p> <p>M1A1</p> <p>[4]</p>
3. (a)	$f(x) = 3(x^2 + 2x) + 7$ $= 3(x+1)^2 + 7 - 3 \times 1$ $= 3(x+1)^2 + 4$	$A(x^2 + 2Bx + B^2) + C$ $A = 3 \quad 2AB = 6 \quad AB^2 + C = 7$ $A = 3 \quad B = 1 \quad C = 4$ <p>M1</p> <p>A2,1,0 (3)</p>
(b)	<p>(i) $x = -1$</p> <p>(ii) $\frac{1}{4}$</p>	<p>B1ft</p> <p>B1ft (2)</p> <p>[5]</p>