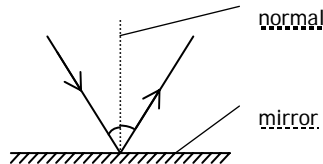
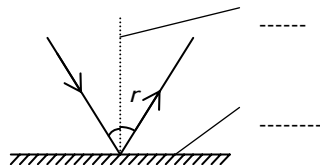
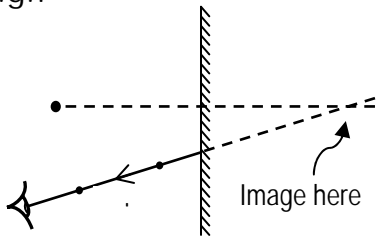


Question number	Answer	Notes	Marks												
6 (a)	<table><tr><td>statement</td><td>tick</td></tr><tr><td>the image in a plane mirror is virtual</td><td>✓</td></tr><tr><td>light from the object passes through the image in a plane mirror</td><td></td></tr><tr><td>light waves are longitudinal</td><td></td></tr><tr><td>the angle of incidence equals the angle of reflection</td><td>✓</td></tr><tr><td>the incident ray is at right angles to the reflected ray</td><td></td></tr></table>	statement	tick	the image in a plane mirror is virtual	✓	light from the object passes through the image in a plane mirror		light waves are longitudinal		the angle of incidence equals the angle of reflection	✓	the incident ray is at right angles to the reflected ray		Three ticks – max 1 mark Four or more ticks – no mark	2
statement	tick														
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the angle of incidence equals the angle of reflection	✓														
the incident ray is at right angles to the reflected ray															
(b) (i)			2												
(ii)			1												

Question number	Answer	Notes	Marks
6 (c) (i)	<p>First suitable line extended; Second suitable line extended;</p> <p>Image indicated correctly <u>at crossing point of suitable lines</u> ;</p> <p>e.g.:</p> 	<p>Suitable lines include: sighting pin line line from object perpendicular to mirror candidates own sighting line from another position</p> <p>Image may be indicated with any clear mark or label</p>	<p>1</p> <p>1</p> <p>1</p>
(ii)	<p>EITHER</p> <p>Appropriate additional drawing; e.g. extend perpendicular / second sighting line check line passes through image;</p> <p>OR</p> <p>Measure distance(s) (to mirror); Object distance = image distance;</p> <p>OR</p> <p>pin placed in image position; method of no parallax named or described;</p>	<p>Any additional drawing should be complementary to 6(c)(i) answer</p>	2

Total 10 marks