

12	(a)	<p>because it's neither a one-to-one nor a many-to-one (mapping)</p> <p>do not allow eg because it's neither a one-to-one nor a many-to-one <b>function</b></p>	B1	2.4	<p>allow because it's one-to-many (mapping) allow eg because each value of <math>x</math> is mapped to two values <b>oe</b></p> <p>do not allow eg because it's a one-to-many <b>function</b></p>
			[1]		
12	(b)	$\frac{x^2+2}{x^2+2-3}$ $\frac{x^2+2}{x^2-1} \text{ or } \frac{x^2+2}{(x-1)(x+1)}$	M1	1.1	
			A1	1.1	
			[2]		

Question		Answer	Marks	AO	Guidance
<b>12</b>	<b>(c)</b>	$ x  > 1$ <b>or</b> $x < -1$ <b>or</b> $x > 1$ <b>or</b> $x < -1, x > 1$ <b>or</b> $x < -1 \cup x > 1$	<b>B1</b>	<b>1.1</b>	do not allow eg $x < -1$ and $x > 1$ eg $-1 > x > 1$
			<b>[1]</b>		