Question	Answer	Marks	AO	Guidance	
1	**DR** $x=\dfrac{24}{3-\sqrt{5}}=\dfrac{24\left(3+\sqrt{5}\right)}{\left(3-\sqrt{5}\right)\left(3+\sqrt{5}\right)}$	**M1**	**1.1**	Multiplying numerator and denominator by $3+\sqrt{5}$ or $-3-\sqrt{5}$	**Alternative: M1** Correct method to solve simultaneous equations formed from equating expressions to $a+b\sqrt{5}$
	$=\dfrac{24\left(3+\sqrt{5}\right)}{9-3\sqrt{5}+3\sqrt{5}-5}=\dfrac{24\left(3+\sqrt{5}\right)}{4}$	**A1**	**1.1**	Correct simplified denominator	**A1** Either *a* or *b* correct
	$=18+6\sqrt{5}$	**A1** **[3]**	**1.1**	Final answer **cao** , therefore final answer of only $6\left(3+\sqrt{5}\right)$ is **A0**	**A1** Both correct