23	$ABF = 180 - x$ **or** $CDF = 180 - x$		4	M1	for finding an expression for *ABF* **or** *CDF*. May be seen on diagram.
	$FDE = 180 - (180 - x)$ $(= x)$ *AFB* or *ACE* $= 180 - (180 - x) - 54$ $(= x - 54)$ *DFE* or *ACE* $= 180 - x - 32$ $(= 148 - x)$ e.g. $54 + y + 180 - x = 180$ where $AFB = y$ $32 + y + (180 - (180 - x)) = 180$ where $DFE = y$			M1	method to find *FDE* **and** *AFB* **or** method to find *FDE* **and** *DFE* **or** method to find *ACE* **or** method to find *FDE* **and** an equation for *AFB* e.g. $54 + y + 180 - x = 180$ where $AFB = y$ **or** method to find *FDE* **and** an equation for *DFE* e.g. $32 + y + (180 - (180 - x)) = 180$ where $DFE = y$ May be seen on diagram.
	e.g. $32 + x + x - 54 = 180$ **or** $54 + 180 - x + 148 - x = 180$ **or** $x - 54 = 148 - x$ oe **or** $54 + y + 180 - x = 180$ **and** $32 + y + (180 - (180 - x)) = 180$ where $AFB = DFE = y$			M1	for setting up an equation or a pair of correct simultaneous equations to solve for *x*
		101		A1	dep on at least M1
					Total 4 marks