Question		Answer	Marks	AO	Guidance
5		**DR** $0 = 4 - \sqrt{x+1}$ leading to $4 = \sqrt{x+1}$	**B1**	**2.1**	setting $y = 0$ and isolating square root term
		value of x obtained from $x + 1 = 4^2$	**M1**	**1.1**	square both sides correctly
		$(15, 0)$	**A1**	**1.1**	do **not** allow simply $x = 15$; condone missing brackets; allow $x = 15, y = 0$ seen together **SC1** for correct coordinate unsupported
		alternative method 1 **DR** $0 = 4 - \sqrt{x+1}$ leading to $8\sqrt{x+1} = x + 17$	**B1**	**2.1**	setting $y = 0$ and squaring both sides correctly
		value of x obtained from $0 = (x - 15)^2$	**M1**	**1.1**	**NB** $0 = x^2 - 30x + 225$
		$(15, 0)$	**A1**	**1.1**	do **not** allow simply $x = 15$; condone missing brackets; allow $x = 15, y = 0$ seen together
		alternative method 2 **DR** $\sqrt{x+1} = 4 - y$ leading to $x = (4 - y)^2 - 1$	**B1**	**2.1**	rearrange to make x the subject **NB** $x = y^2 - 8y + 15$
		value of x obtained from setting $y = 0$	**M1**	**1.1**	eg $x = 4^2 - 1$
		$(15, 0)$	**A1**	**1.1**	do **not** allow simply $x = 15$; condone missing brackets; allow $x = 15, y = 0$ seen together
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