25	eg $\frac{1}{2}(2x-1)(2x+1)\sin 30 = x^2 + x - 3.75$ oe		6	M1	for equating area of triangle with the given area
		3.5		A1	for the value of x
	$(BC^2 =)"6"^2 + "8"^2 - (2\times"6"\times"8"\times\cos 30)(=16.8(615...))$ oe or (BC =) $\sqrt{"16.8..."}$ (= 4.10(628…))			M1	ft dep on M1 for a correct method to find BC^2 or BC (AB = 6 and AC = 8)
	$\frac{\sin(ABC)}{"8"} = \frac{\sin 30}{\sqrt{"16.8"}}$ oe or $\frac{\sin(BCA)}{"6"} = \frac{\sin 30}{\sqrt{"16.8"}}$ oe or $"6"^2 = "8"^2 + \left(\sqrt{"16.8"}\right)^2 - \left(2\times"8"\times\sqrt{"16.8"}\times\cos(BCA)\right)$ oe or $"8"^2 = "6"^2 + \left(\sqrt{"16.8"}\right)^2 - \left(2\times"6"\times\sqrt{"16.8"}\times\cos(ABC)\right)$ oe			M1	ft dep on previous M1 for a correct method to find angle ABC or angle BCA
	$(\sin ABC =)\frac{\sin 30\times"8"}{\sqrt{"16.8"}}(=0.974...)$ oe or ABC = 76.9… or $(\sin BCA =)\frac{\sin 30\times"6"}{\sqrt{"16.8"}}(=0.730...)$ oe or BCA = 46.9… or $(\cos BCA =)\frac{"8"^2 + \left(\sqrt{"16.8"}\right)^2 - "6"^2}{2\times"8"\times\left(\sqrt{"16.8"}\right)}(=0.682...)$ oe or BCA = 46.9… or $(\cos ABC =)\frac{"6"^2 + \left(\sqrt{"16.8"}\right)^2 - "8"^2}{2\times"6"\times\left(\sqrt{"16.8"}\right)}(=-0.226...)$ oe or ABC = 103.0…			M1	ft dep on previous M1 for a correct rearrangement for sin ABC or sin BCA or cos BCA or cos ABC
	Correct answer scores full marks (unless from obvious incorrect working)	103		A1	accept awrt 103
					Total 6 marks

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