Question 3 – 2:

3(a)(i)	6	**3**	**B2** for $4x + 6 = 30$ or better or **M1** for $x + x + 7 + 2x - 1$ [= 30]
3(a)(ii)	21	**3**	**M2** for (555 – *their* $x \times 15$ – *their* $(x + 7) \times 18) \div$ *their* $(2x - 1)$ or **M1** for *their* $x \times 15$ or *their* $(x + 7) \times 18$
3(b)(i)	8	**2**	**M1** for isolating the term in w or correctly removing all fractions e.g. $\frac{3w}{16} = 1 + \frac{1}{2}$ or better or 3w – 16 = 8
3(b)(ii)	–3	**2**	**M1** for $2^{-y} = 8$ or $2^{y} = \frac{1}{8}$ or $2^{-y} =$ *their* w or better

3(c)(i)	[p =] $\frac{1}{2}$ oe [q =] 1	**2**	**B1** for each If zero scored, **SC1** for 2 values satisfying one of the original equations
3(c)(ii)	[u =] 30 and 150 [v =] 0 and 360	**4**	**B1** for each OR **SC1** for sin u = *their* p and cos v = *their* q **SC1** if their two different angles for u sum to 180 or if their different two angles for v sum to 360