Answers and mark guide

Q	Answer	Working	Marks
1	**x = (2y + 3)/(y − 1)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
2	**x = −ay/(y − 1)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
3	**x = (−a − by)/(y − 1)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
4	**x = −√(−a + y²) or x = √(−a + y²)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
5	**l = T²g/(4π²)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
6	**v = fu/(−f + u)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
7	**a = 2(s − tu)/t²**	Remove fractions and roots first, collect the subject terms, then factorise.	4
8	**r = 6(1/3)V(1/3)/(2π(1/3)) or r = V(1/3)(−6(1/3) − 2(1/3)3(5/6)l)/(4π(1/3))**	Remove fractions and roots first, collect the subject terms, then factorise.	4
9	**l = A/(πr) − r**	Remove fractions and roots first, collect the subject terms, then factorise.	4
10	**x = y/(a − y)**	Remove fractions and roots first, collect the subject terms, then factorise.	4
11	**x = (3y + 1)/(y − 2)**	Remove fractions and roots first, collect the subject terms, then factorise.	5
12	**a = −x + y²/x**	Remove fractions and roots first, collect the subject terms, then factorise.	5
13	**x = b(a − 1)/(a + 1)**	Remove fractions and roots first, collect the subject terms, then factorise.	5
14	**x = (y + 1)/(y − 2)**	Remove fractions and roots first, collect the subject terms, then factorise.	5
15	**x = −√(y + 4) − 2 or x = √(y + 4) − 2**	Remove fractions and roots first, collect the subject terms, then factorise.	5
16	**x = (b + y)/(−a + y)**	Remove fractions and roots first, collect the subject terms, then factorise.	5
17	**x = (a − by)/(y − 1)**	Remove fractions and roots first, collect the subject terms, then factorise.	5

Q	Answer	Working	Marks
18	**$x = (-y^2 - 1)/(y^2 - 1)$**	Remove fractions and roots first, collect the subject terms, then factorise.	5
19	**$y = ax/(a + x)$**	Remove fractions and roots first, collect the subject terms, then factorise.	5
20	**$x = y/(y + 1)$**	Remove fractions and roots first, collect the subject terms, then factorise.	5

My score: _____ / **90** Questions 1–15 = 65 marks (Foundation focus)