

**Utah Aspire Plus Mathematics
Question Sampler Answer Key**

Question Number	Item Type	Key/Example Response
1	Multiple Choice	C
2	Technology Enhanced*	Exponential Move points to (0, 6) and (3, -1) OR (1, 2) and (4, -1.5) Move asymptote to $y = -2$
3	Multiple Choice	A
4	Technology Enhanced	(3, 4) (1, 1) (1, 5)
5	Technology Enhanced*	0.92 OR .92
6	Technology Enhanced	Irrational Rational Rational Irrational
7	Technology Enhanced*	Plot (10, 3) and (10, 14) OR Plot (10, 4) and (10, 13)
8	Multiple Choice	E
9	Technology Enhanced	Choose the bottom left rectangular image, labeled clockwise from top left, D'A'B'C'; Move it to D' (-3, -2); A' (-1, -2); B' (-1, -5); C' (-3, -5)
10	Technology Enhanced	Function A, Function C, Function B
11	Technology Enhanced	Segment bisectors create two congruent segments. $\angle LPM \cong \angle NPO$; Vertical angles are congruent. SAS
12	Multiple Choice	B
13	Technology Enhanced*	$(Ax + By)/(A + B)$ OR $Ax/(A + B) + By/(A + B)$
14	Technology Enhanced	A'' (-1, -5); B''(6, -3); C''(-1, 3)
15	Technology Enhanced*	9; 19; 29; 39 OR 9; 16.1; 23.2; 30.3
16	Multiple Choice	A
17	Technology Enhanced*	1 2
18	Technology Enhanced*	Quadratic Move vertex to (0, 3); move second point to (2, 1) OR (4, -5)
19	Technology Enhanced*	$m\angle 1 + m\angle 2 = 180^\circ$; $m\angle 2 + m\angle 3 = 180^\circ$ $m\angle 1 + m\angle 2 = m\angle 2 + m\angle 3$ $m\angle 1 = m\angle 3$

		OR $m\angle 2 + m\angle 3 = 180^\circ$; $m\angle 1 + m\angle 2 = 180^\circ$ $m\angle 1 + m\angle 2 = m\angle 2 + m\angle 3$ $m\angle 1 = m\angle 3$
20	Technology Enhanced	271; 27 39; 663 39/702
21	Technology Enhanced*	$g(x) = (16/27)x^3 - (4/9)x^2 + (1/3)x$
22	Multiple Choice	D, F, B
23	Technology Enhanced*	3 OR 3.
24	Technology Enhanced	1; less than; maximum
25	Multiple Choice	C

*Some technology enhanced items have more than 1 correct answer. Only 1 or 2 example correct answers are listed.