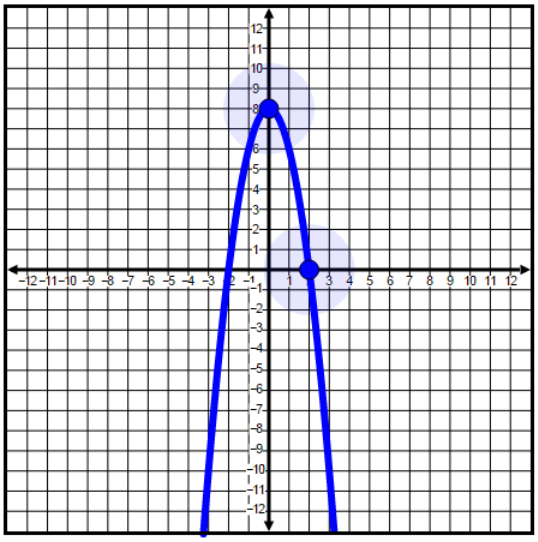
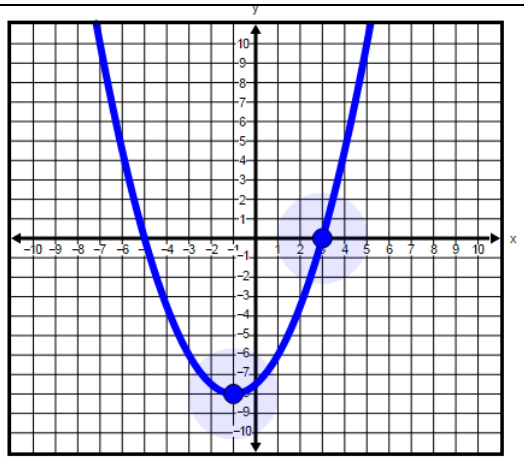
Released Test Answer and Alignment Document

Mathematics – Algebra 2

End of Year Assessment

Item Number	Answer Key	Evidence Statement Key	Integrated Course Alignment
1.	D	N-CN.2	Math 2
2.	C, E	A-APR.2	Math 3
3.	1	A-REI.2	Math 3
4.	Part A: D Part B: C	A-Int.1	Math 3
5.	$a = 1$: B; $a = 0$: A; $a = -1$:	A.Int.1	Math 3
6.	$-3, 6, -12, 24, \ldots$ $a_n = -3(-2)^{n-1}$ $81, 78, 75, 72, \ldots$ $a_n = 81 - 3(n-1)$ $-3, -5.5, -8, -10.5, \ldots$ $a_n = -3 - 2.5(n-1)$ $81, 27, 9, 3, \ldots$ $a_n = 81(\frac{1}{3})^{n-1}$	F-BF.2	Math 1
7.	C, E	F-IF.6-2	
8.	C	A-SSE.3c-2	
9.	$x =$ -1 $y =$ 1 $z =$ 5	A-REI.6-2	Math 1
10.	A	F-BF.3-2	Math 3
11.	$\frac{5}{4}$	N-RN.2	Math 2

12.	B, E	N-RN.2	Math 2
13.	$2f(1-x)-3g(x) =$ [2] $x^2 +$ [-1] $x +$ [-7]	F-BF.1b-1	Math 2
14.	Formula: $n = f^{-1}(p) = \frac{1}{30}p + 15$ Minimum number of cakes: 32	F-BF.Int.2	Math 3
15.	Part A:  Part B: The function f is symmetric about [the y-axis] because for all values of x, $f(-x) =$ [f(x)] .	F-IF.4-2	Math 3
16.	$M(t) = 10(2)^{\frac{t}{20}}$ 55 minutes Note: or equivalent equation	F-Int.1-2	
17.	0.6	F-TF.8-2	Math 3
18.	Part A: B Part B: B, D, F	F-Int.3	Math 3
19.	Part A: [25] ——— [437] Part B: D	S-CP.Int.1	Math 2

20.	Part A: $n(x) = 19.95x + 1476.30$ Note: or equivalent equation Part B: 19.95 Part C: D Part D: $P(s) = 8.2s$ Note: or equivalent equation	HS-Int.3-3	Math 3
21.	Part A: 1.02 Part B: C	A-SSE.4-2	Math 3
22.	D, F	A-SSE.2-3	Math 3
23.	Part A: A, B Part B: C Part C: 805 or 806 Part D: 61 or 62	F-Int.1-2	
24.		F-IF.7c	Math 3
25.	Part A: 3 Part B: 3.0 or 2.9 or 3.1 Part C: B Part D: D, E, F	F-IF.4-2	
26.	D	S-IC.2	Math 3
27.	Part A: According to the specifications, approximately 84 percent of the bags weigh 4.00 ounces or more. Part B: 1.5	S-ID.4	Math 3

28.	kWh used in April : 708.88 Total cost for April : 65.52	S-ID.6a-2	Math 3
29.	Part A: B Part B: 23.7 or 23.8	S-IC.Int.1	Math 3
30.	(1 , 2) (-2 , 5)	A-REI.11-2	Math 3
31.	A, D, F	A-REI.4b-2	Math 2
32.	Part A: $2j^4 - 8j^2$ Part B: B, E, F	A-SSE.2-6	Math 3
33.	Part A: B Part B: 1594 or 1593	A-SSE.4-2	Math 3