**CCSS Algebra 1**

**Formative B ANSWER KEY [30 points total]**

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| **Answer** | **Standard(s)** |
| 1. C
 | A-CED.A.1 |
| 1. A
 | F-IF.B.6, F-IF.A.3 |
| 1. B
 | A-CED.A.3 |
| 1. B
 | F-IF.A.1 |
| 1. A
 | A-CED.A.4  |
| 1. D
 | F-BF.B.3 |
| 1. D
 | A-REI.C.6, A-REI.D.11 |
| 1. A
 | F-LE.B.5 |
| 1. A
 | F-IF.C.9, F-IF.B.6 |
| 1. C
 | A-SSE.1a |
| 1. C
 | S-ID.C.9  |
| 1. B
 | A-REI.D.12 |
| 1. 6
 | A-REI.B.3 |
| 1. 2
 | S-ID.B.6b |
| Each constructed response is worth 8 points total; 2 points per letter. One point for the correct response and a second point for a solid justification. |  |
| 1. [8 points total]

a. The two functions are linear because they have a constant rate of change.b. The Miller’s is 60 mph and the Jones’ is 55mph. The slope for the Miller’s means that they travel 60 miles per 1 hour. The slope for the Jones’ means that they travel 55 miles per 1 hour. c. The x intercept for the Millers is $\left(\frac{5}{6}, 0\right) or \left(.833, 0\right)$ Meaning that at 0.833 of an hour or 50 minutes, the Miller’s will be at the same distance the Jones’ started from. The Miller’s y intercept is (0,-50) meaning they started 50 miles behind the Jones’. The Jones’s x and y intercept is $\left(0,0\right)$. This means that if no time has passed the Jones’ have not traveled anywhere. d. $\left(10,550\right)$ They will be 550 miles into the trip when they meet up. To Justify plug the ordered pair into both equations to show equality.  | A-CED.A.1F-LE.A.1aF-IF.B.6F-LE.A.1aF-LE.B.5A-REI.C.6 |

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| 1. [8 points total]

a. b. 2006c. No, the cost of the online school would be negative so it would not be an appropriate equation. d. Traditional College– domain [0, ∞) Range [3.8, ∞) [2000, ∞) Online College – domain [0, 18.75] Range [7.5,0] [2000, in 2018] | A-REI.D.11, A-CED.A.3,A-CED.A.2F-IF.B.5 |