



Name: _____

Date: _____

Algebra 1 – Unit 1 – Substitution of Variables (Hard)

1. $7x + 3y$ when $x = 3, y = 4$, $1x^2 + 5x$ when $x = 4$

2. $2x^2 + 2x$ when $x = 7$, $4x^2 + 5x$ when $x = 6$

3. $4x + 3y$ when $x = 8, y = 9$, $2x^2 + 3x$ when $x = 2$

4. $6x + 7y$ when $x = 9, y = 5$, $\frac{2x + 32}{4}$ when $x = 10$

5. $5x^2 + 2x$ when $x = 10$, $7x + 3y$ when $x = 9, y = 6$



Algebra 1 – Unit 1 – Substitution of Variables (Hard) – Answer Key

1. $7x + 3y$ when $x = 7, y = 6$ $1x^2 + 5x$ when $x = 4$
 $x = 67$ $x = 36$

2. $2x^2 + 2x$ when $x = 7$ $4x^2 + 5x$ when $x = 6$
 $x = 60$ $x = 174$

3. $4x + 3y$ when $x = 9, y = 9$ $2x^2 + 3x$ when $x = 2$
 $x = 63$ $x = 14$

4. $6x + 7y$ when $x = 9, y = 5$ $\frac{2x + 32}{4}$ when $x = 10$
 $x = 89$ $x = 11$

5. $5x^2 + 2x$ when $x = 10$ $7x + 3y$ when $x = 9, y = 6$
 $x = 192$ $x = 72$