



Name: _____

Date: _____

Unit 1 – Substitution of Variables

Substitute the given values for each variable.

1. $2x^2 + 4x$; $x = 2$

2. $5x + 3y$; $x = 5$, $y = 7$

3. $\frac{3x + 6}{3}$; $x = 6$

4. $2x + 5y$; $x = 7$, $y = 3$

5. $\frac{3x + 10}{4}$; $x = 2$

6. $4x^2 + 3x$; $x = 2$

7. $2x^2 + 2x$; $x = 4$

8. $7x + 7y$; $x = 9$, $y = 6$

9. $\frac{3x + 6}{3}$; $x = 6$

10. $5x + 2y$; $x = 9$, $y = 5$



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Unit 1 – Substitution of Variables

Substitute the given values for each variable.

11. $4x + 6y$; $x = 9$, $y = 8$

12. $5x + 7y$; $x = 2$, $y = 4$

13. $4x^2 + 7x$; $x = 5$

14. $5x^2 + 4x$; $x = 6$

15. $2x^2 + 3x$; $x = 5$

16. $3x + 7y$; $x = 4$, $y = 3$



Unit 1 – Substitution of Variables – Answer Key

1. $2x^2 + 4x$; $x = 2$
16

2. $5x + 3y$; $x = 5$, $y = 7$
46

3. $\frac{3x + 6}{3}$; $x = 6$
8

4. $2x + 5y$; $x = 7$, $y = 3$
29

5. $\frac{3x + 10}{4}$; $x = 2$
4

6. $4x^2 + 3x$; $x = 2$
22

7. $2x^2 + 2x$; $x = 4$
40

8. $7x + 7y$; $x = 9$, $y = 6$
105

9. $\frac{3x + 6}{3}$; $x = 6$
8

10. $5x + 2y$; $x = 9$, $y = 5$
55



Unit 1 – Substitution of Variables – Answer Key

11. $4x + 6y$; $x = 9$, $y = 8$

84

12. $5x + 7y$; $x = 2$, $y = 4$

38

13. $4x^2 + 7x$; $x = 5$

135

14. $5x^2 + 4x$; $x = 6$

204

15. $2x^2 + 3x$; $x = 5$

65

16. $3x + 7y$; $x = 4$, $y = 3$

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