



Name: _____

Date: _____

Substitution of Variables

Substitute the given values for each variable.

1. $4w + 2x + 3y - 4z$; $w = 4, x = 4, y = 6, z = 7$

2. $2w + 3x + 3y - 2z$; $w = 7, x = 3, y = 3, z = 6$

3. $4(4x + 2y)$; $x = 3, y = 2$

4. $4w + 1x + 1y - 4z$; $w = 2, x = 6, y = 6, z = 3$

5. $5(2x + 2y)$; $x = 2, y = 3$

6. $2x^2 + 5y^2 + 6$; $x = 2, y = 2$

7. $5(3x + 2y)$; $x = 6, y = 6$

8. $1w + 1x + 1y - 1z$; $w = 6, x = 7, y = 2, z = 2$



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Substitution of Variables

Substitute the given values for each variable.

9. $2x^2 + 2y^2 + 5$; $x = 2$, $y = 4$

10. $2x^2 + 3y^2 + 5$; $x = 5$, $y = 4$



Substitution of Variables – Answer Key

1. $4w + 2x + 3y - 4z$; $w = 4, x = 4, y = 6, z = 7$

2. $2w + 3x + 3y - 2z$; $w = 7, x = 3, y = 3, z = 6$

3. $4(4x + 2y)$; $x = 3, y = 2$
64

4. $4w + 1x + 1y - 4z$; $w = 2, x = 6, y = 6, z = 3$

5. $5(2x + 2y)$; $x = 2, y = 3$
50

6. $2x^2 + 5y^2 + 6$; $x = 2, y = 2$
34

7. $5(3x + 2y)$; $x = 6, y = 6$
150

8. $1w + 1x + 1y - 1z$; $w = 6, x = 7, y = 2, z = 2$



Substitution of Variables – Answer Key

9. $2x^2 + 2y^2 + 5$; $x = 2$, $y = 4$
45

10. $2x^2 + 3y^2 + 5$; $x = 5$, $y = 4$
103