



Name: _____

Date: _____

Substitution of Variables

1. $\frac{2x + 0}{3}$ when $x = 2$ $5x^2 + 6x$ when $x = 2$

2. $\frac{2x + 8}{2}$ when $x = 6$ $4x^2 + 3x$ when $x = 6$

3. $2x^2 + 5x$ when $x = 6$ $2x^2 + 3x$ when $x = 6$

4. $1x^2 + 2x$ when $x = 6$ $7x + 2y$ when $x = 6, y = 9$

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



Substitution of Variables – Answer Key

1. $\text{Substitute: } \frac{2x + 0}{3}$ when $x = 6$ $\text{Substitute: } 5x^2 + 6x$ when $x = 2$
 $x = 4$ $x = 32$

2. $\text{Substitute: } \frac{2x + 8}{2}$ when $x = 7$ $\text{Substitute: } 4x^2 + 3x$ when $x = 6$
 $x = 162$

3. $\text{Substitute: } 2x^2 + 5x$ when $x = 6$ $\text{Substitute: } 2x^2 + 3x$ when $x = 6$
 $x = 18$ $x = 90$

4. $\text{Substitute: } 1x^2 + 2x$ when $x = 6$ $\text{Substitute: } 7x + 2y$ when $x = 6, y = 9$
 $x = 24$ $x = 60$

5. $\text{Substitute: } 4x + 6y$ when $x = 10$ $\text{Substitute: } \frac{4x + 10}{2}$ when $x = 6$
 $x = 9$