

Name: _____



Evaluating Expressions (w/ exponents) (two variables)

Directions: Evaluate each expression when $x = 3$ and $y = 6$.

1. $x^2 + y =$ _____

7.

$10y - 4x^2 =$ _____

2. $3y^2 =$ _____

8.

$6x^2 + y =$ _____

3. $2x^2 - 3y =$ _____

9.

$\frac{18}{x^2} =$ _____

4. $\frac{x^3}{9} + 4y =$ _____

10.

$2y^3 - 4y^2 =$ _____

5. $2x^2y^2 =$ _____

11.

$\frac{x^3}{9} + y^2 =$ _____

6. $\frac{y^2}{x^2} =$ _____

12.

$4x^3 - 3y^2 =$ _____



ANSWER KEY

1. $x^2 + y = 15$

7. $10y - 4x^2 = 24$

2. $3y^2 = 108$

8. $6x^2 + y = 60$

3. $2x^2 - 3y = 0$

9. $\frac{18}{x^2} = 2$

4. $\frac{x^3}{9} + 4y = 27$

10. $2y^3 - 4y^2 = 288$

5. $2x^2y^2 = 648$

11. $\frac{x^3}{9} + y^2 = 39$

6. $\frac{y^2}{x^2} = 4$

12. $4x^3 - 3y^2 = 0$