

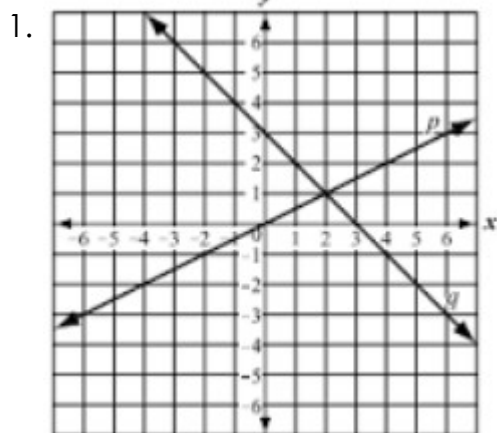
Name: \_\_\_\_\_  
 Period \_\_\_\_\_

Date: \_\_\_\_\_  
 Henderson – Math 8

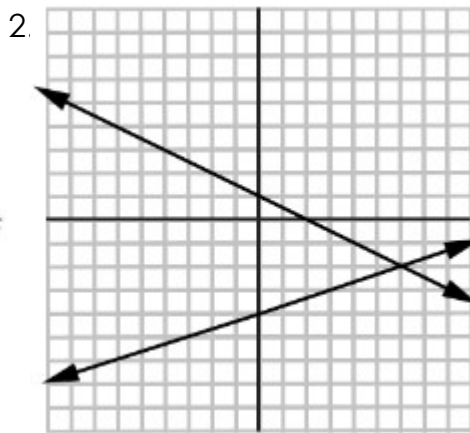
## Homework for Week 19

**Monday: HW# 19A** (go to [www.khanacademy.org](http://www.khanacademy.org) or [www.hendersonmath.com](http://www.hendersonmath.com) for review)

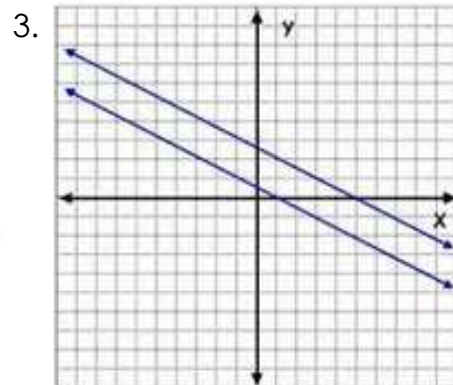
Find the solution to the system of equations shown in the graph.



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**Tuesday: HW# 19B** (go to [www.khanacademy.org](http://www.khanacademy.org) or [www.hendersonmath.com](http://www.hendersonmath.com) for review)

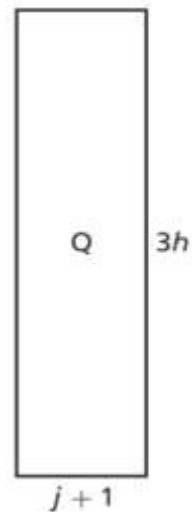
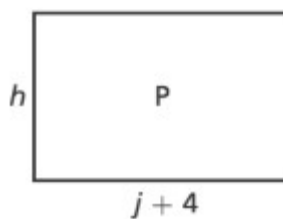
Find the solution to the equation

4.) Rectangle P has a perimeter of 20 inches. Rectangle Q has a perimeter of 30 inches.

What are the values of  $j$  and  $h$ ? Show how you determined your answer.

What are the values of  $j$  and  $h$ ?

- A  $j = 3$  and  $h = 3$
- B  $j = 10$  and  $h = 4$
- C  $j = 2$  and  $h = 4$
- D  $j = 9.5$  and  $h = 6.5$



**Wed: HW#19C** (go to [www.khanacademy.org](http://www.khanacademy.org) or [www.hendersonmath.com](http://www.hendersonmath.com) for review)

Write each expression using **positive exponents**.

5.)  $m^3 \cdot m^8$  \_\_\_\_\_  $5^9 \cdot 5^{-7}$  \_\_\_\_\_  $4m^2 \cdot 2m^7$  \_\_\_\_\_  $x^{-10}$  \_\_\_\_\_

Write each expression using positive exponents. **Evaluate, if possible.**

6.)  $x^{-7}$  \_\_\_\_\_  $5^{-4}$  \_\_\_\_\_  $3^{-2}$  \_\_\_\_\_  $5 \cdot w^{-3}$  \_\_\_\_\_

7.)  $\frac{3^8}{3^4}$  \_\_\_\_\_  $\frac{m^7}{m^3}$  \_\_\_\_\_  $\frac{2^2}{2^9}$  \_\_\_\_\_  $\frac{4^6 \cdot 6^{12}}{4^3 \cdot 6^{12}}$  \_\_\_\_\_

**SIMPLIFY.**

8.)  $5^{-8} \times 5^4$  \_\_\_\_\_  $6^{-3} \times 6^{-2}$  \_\_\_\_\_

**Thursday: HW#19D** (go to [www.khanacademy.org](http://www.khanacademy.org) or [www.hendersonmath.com](http://www.hendersonmath.com) for review)

9.) Find the rate of change for the following data:

(8, 7) and (8, -3)

**Answers**

9). \_\_\_\_\_

10.) Write an example of an equation of a NON-LINEAR function

10). \_\_\_\_\_

\_\_\_\_\_

11). \_\_\_\_\_

11.) Which of the following is NOT a linear equation?

a)  $y = x + 6$

b)  $\frac{1}{3}y = 2x + 3$

c)  $y = 5x^{-3} + 2$

d)  $3.2x + 4.1y = 7.3x$

12.) Is the graph shown to the right a function? Describe in words how you were able to determine your answer.

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