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| \*Learning Target: |
| \*Critical Content: |

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| --- | --- | --- |
| Method | Best Time To Use | Example |
| Graphing | * To estimate solutions
* When both equations are in y=mx+b form.
 |  |
| Substitution | * When an equation is already solved for one variable.
 |  |
| Elimination + |  |  |
| Elimination – |  |  |
| Elimination X |  |  |

1. Determine the best method to solve the following system. You may like one method more than another person, and the best method to you may not be what the book says is the best method. You can solve it any way you wish, but you MUST GIVE A REASON for why you have chosen the method. Then, solve the system.

$\left\{\begin{array}{c}4x-4y=8\\-8x+y=19\end{array}\right.$

![C:\Users\SGilreath\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\JIPGZKT2\Cartoon_Penguin00001[1].png]()2. Of the 17 species of penguins in the world, the largest species is the emperor penguin. One of the smallest is the Galapagos penguin. The total height of the two penguins is 169cm. The emperor penguin is 22 cm more than twice the height of the Galapagos penguin. Find the height of each penguin.

![C:\Users\SGilreath\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\LD8DC9FA\15167-illustration-of-a-cartoon-penguin-pv[1].png]()Define your two variables.

![C:\Users\SGilreath\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\8F7931PC\new-ping[1].png]()What is your first equation? Hint: It has to do with the third sentence.

What is your second equation? Hint: It has to do with the fourth sentence.

What is the best method to solve the system of equations that you found above? Give a reason. Remember, the best method to you doesn’t have to be the best method that the book uses.

Solve the system in the space provided below.

![C:\Users\SGilreath\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\I749M9C7\pinguin-1[1].png]()