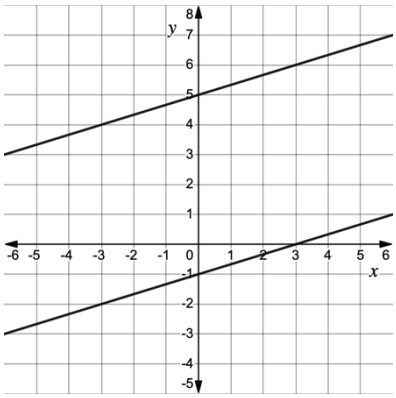
A. Solve the system of equations whose graphs are shown.



MATH MEDIC

B. Find the solution(s) to the system.

$$\begin{cases} y = 2x - 5 \\ y = -3x + 10 \end{cases}$$

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C. There are a total of 540 7th and 8th graders at a middle school. The number of 8th graders is one-and-a-half times the number of 7th graders. Determine the number of 7th graders and the number of 8th graders at this middle school.

MATH MEDIC

D. At a concession stand, the price of a hot dog is double the price of cotton candy. The price of cotton candy is half the price of a hot dog. Determine the price of a hot dog and the price of cotton candy.

MATH MEDIC

E. Solve the system.

$$\begin{cases} 10x + 5y = 20 \\ y = -2x + 1 \end{cases}$$

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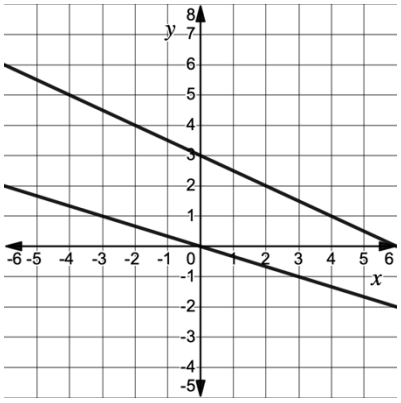
F. Solve the linear system represented in the graph below.



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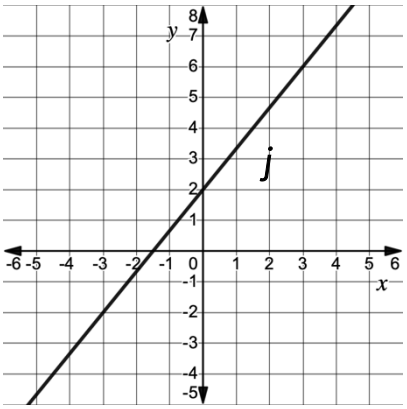
G. Find the solution to the system created by lines k and j.

Line k

x	y
-3	-1
0	3
3	7
6	11



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H. Solve the system created by Equations 1 and 2.

Equation 1

x	y
-4	10
-2	2
0	-6
2	-14

Equation 2

x	y
-3	6
-1	-2
1	-10
3	-18

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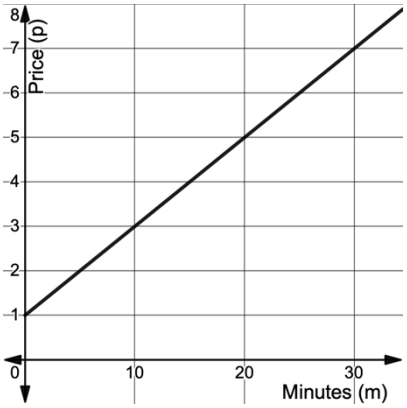
I.

Lime Scooter Rentals in San Diego charges \$2 to start and \$0.10 per minute after. The price to rent a scooter for m minutes from Spin Scooter Rentals is shown in the graph to the right. For which time(s) are the prices the same at both rental companies?



MATH MEDIC

J. $\begin{cases} x = 4y + 1 \\ 3x - 2y = 28 \end{cases}$

MATH MEDIC

K. Kenny packed j pairs of jeans and t t-shirts for his trip. The equation $13j + 5t = 66$ represents the total weight, in ounces, of his jeans and t-shirts. If Kenny packed four times as many t-shirts as jeans, determine the number of jeans he packed and the number of t-shirts he packed.

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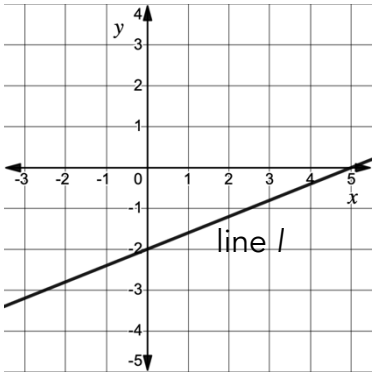
L. Line k has equation $-2x - 5y = 10$. Line l is shown in the graph. Determine the solution(s) of the system of equations created by lines l and k.



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M. A system is made up of two linear equations. The graph of the first linear equation has a slope of $\frac{1}{5}$ and a y-intercept of -4. A table of selected values is given for the second linear equation. Solve the system.

x	y
-10	-6
-2	-4.4
0	-4
5	-3

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