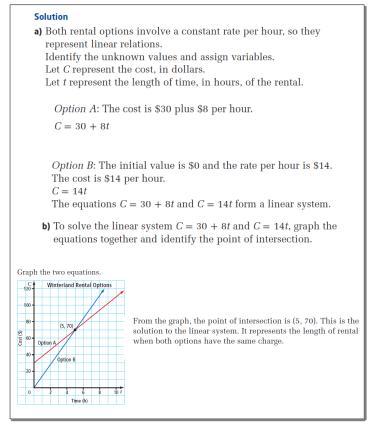


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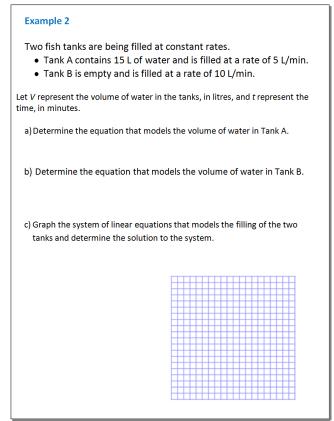


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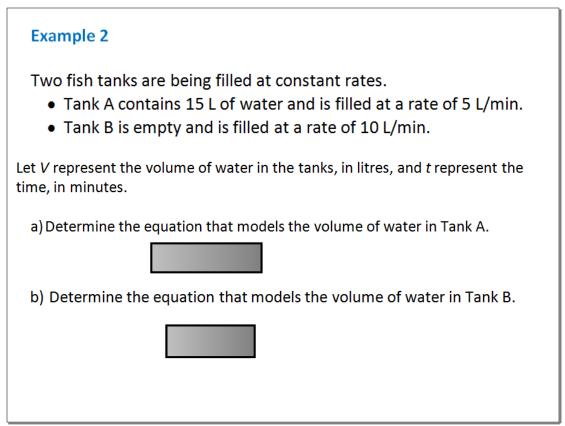
Your Turn

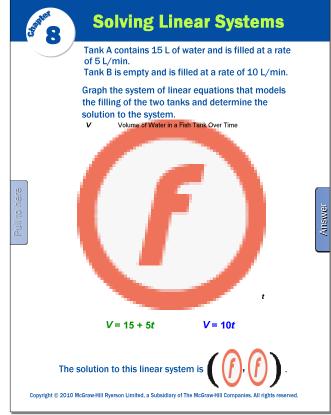
During a stage performance by a theatre company, the main act was on stage for 3 min less than twice the time of the opening act. Together, the two acts performed for 132 min.

- a) Write a system of linear equations to represent the length of time each act performed.
- b) Using technology find the solution to this linear system.What does the solution represent?

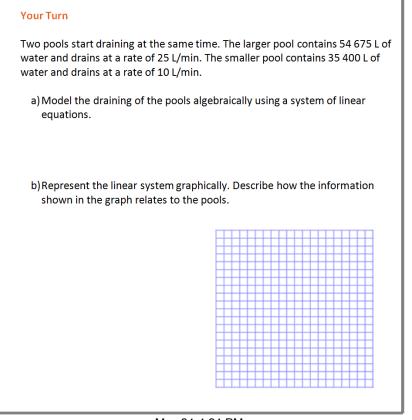


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Jun 4-11:59 AM



May 24-4:24 PM



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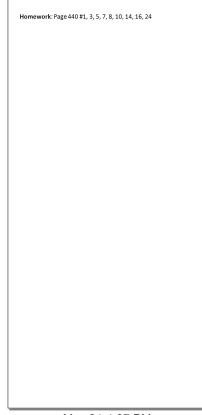


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Solution
a) Define the variables.
Let a represent the number of adult tickets sold.
Let c represent the number of children's or seniors' tickets sold.
Write an equation to model the number of people at the early movie.
a + c = 240
Write an equation to model the ticket sales.
11a + 8c = 2370
The manager could use the linear system $a + c = 240$ and
11a + 8c = 2370 to help determine the number of adults
at the movie.
at the movie.
b) Graph both equations and
identify the point of
Intersection.
The coordinates of the point of intersection are (150, 90).
This is the only point that
satisfies both equations. So, (150, 90) is the solution to the give 200-11x
system of linear equations.
There were 150 adults and
90 children and seniors at the early movie.

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