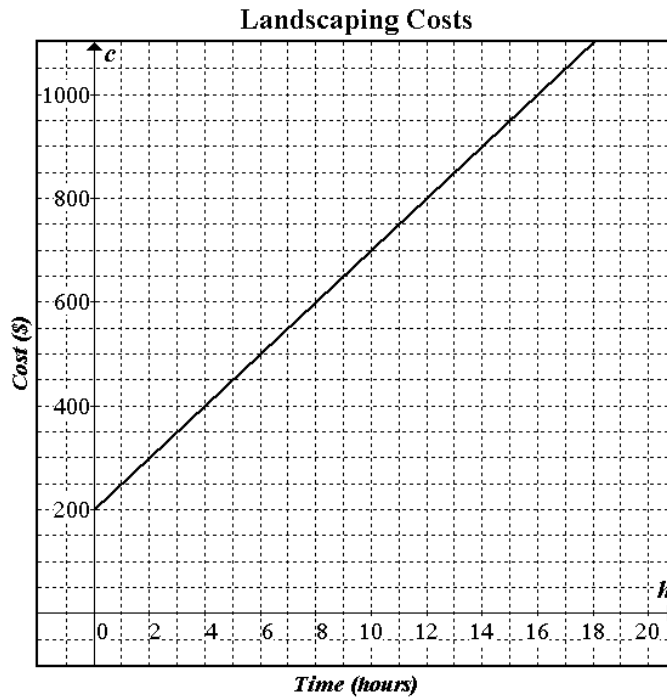


Mr. Choi wants to hire a company to do some landscape work in his backyard. *Pete's Professional Pruners* charge a basic fee of \$200 plus an hourly rate. The graph shows a relationship between cost, c , and number of hours worked, h .



- Using the graph, how much would it cost if the job lasted 7 hours? _____
 - Determine an equation that represents the relationship between cost (c) and the number of hours (h).

 - Using the graph, determine the number of hours of work that Mr. Choi would receive if he pays Pete \$950.

 - A second company, *Louis' Landscapers*, charges a base fee of \$350 and an hourly fee of \$30. Give the equation for this company.

 - Add the line for *Louis' Landscapers* to the above graph.
 - Determine the 'break-even' point using the graph. *(A decimal answer is permitted.)* _____
 - Interpret (explain the meaning) of the break-even point.

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- Use an algebraic approach to find the break-even point and thus verify your answer to (f). *(A decimal answer is permitted.)*

