

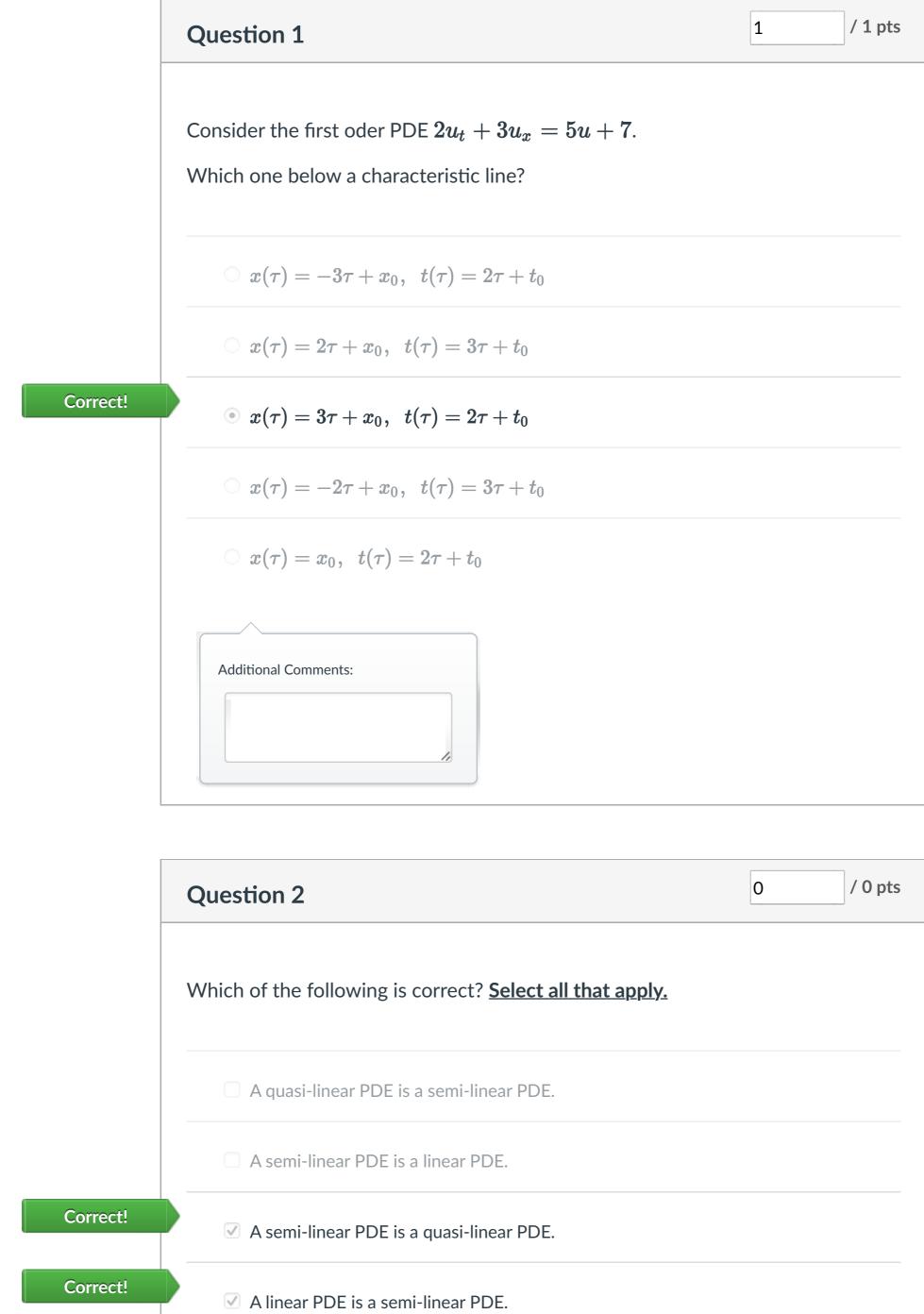
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Help

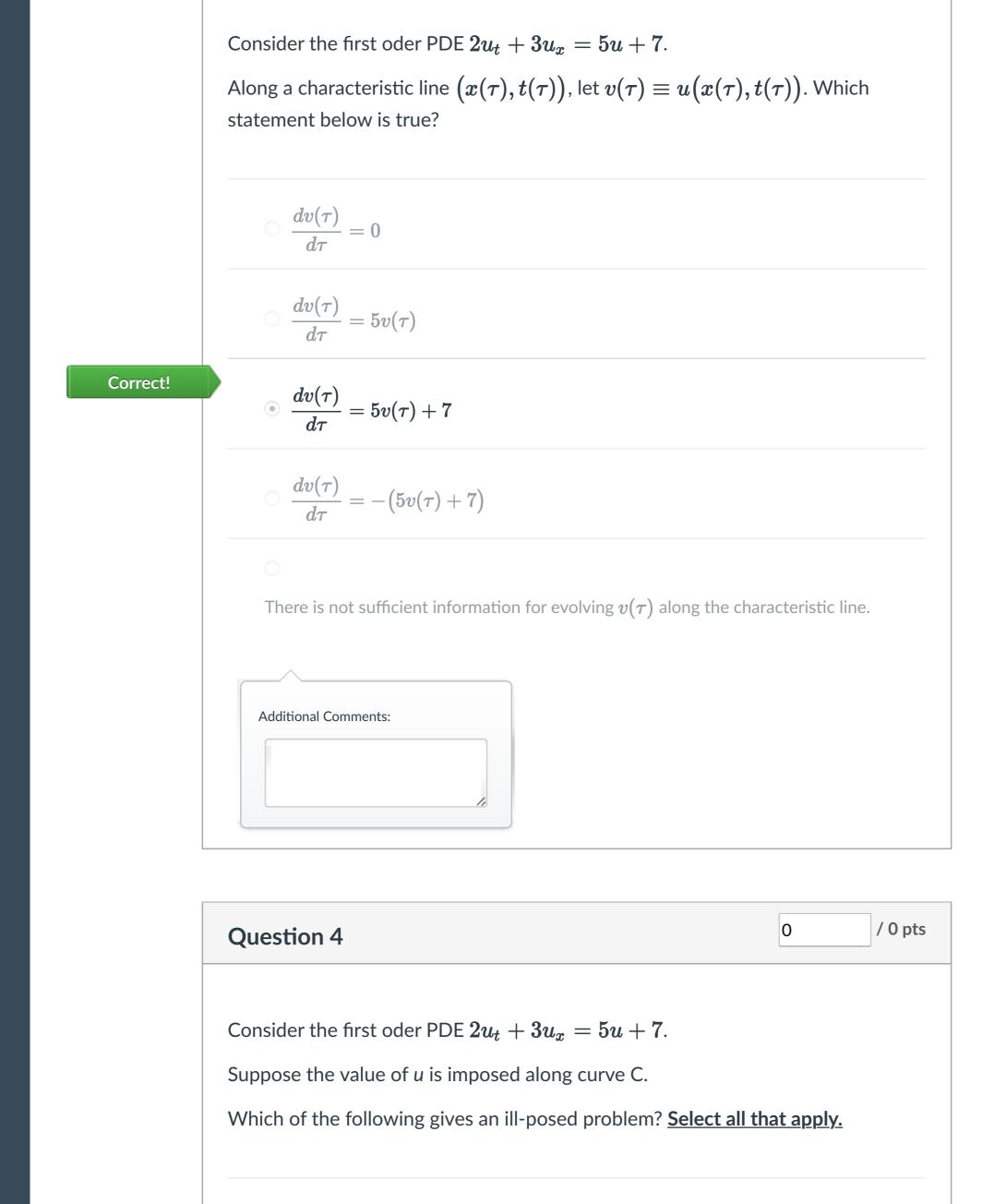
Resources



A quasi-linear PDE is a linear PDE.

Additional Comments:

Question 3



 $oxed{\ }$ Curve C is parameterized by $x_0(s)=s,\ t_0(s)=0.$

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 \square Curve C is parameterized by $x_0(s)=s,\; t_0(s)=rac{1}{2}{
m sin}(s).$

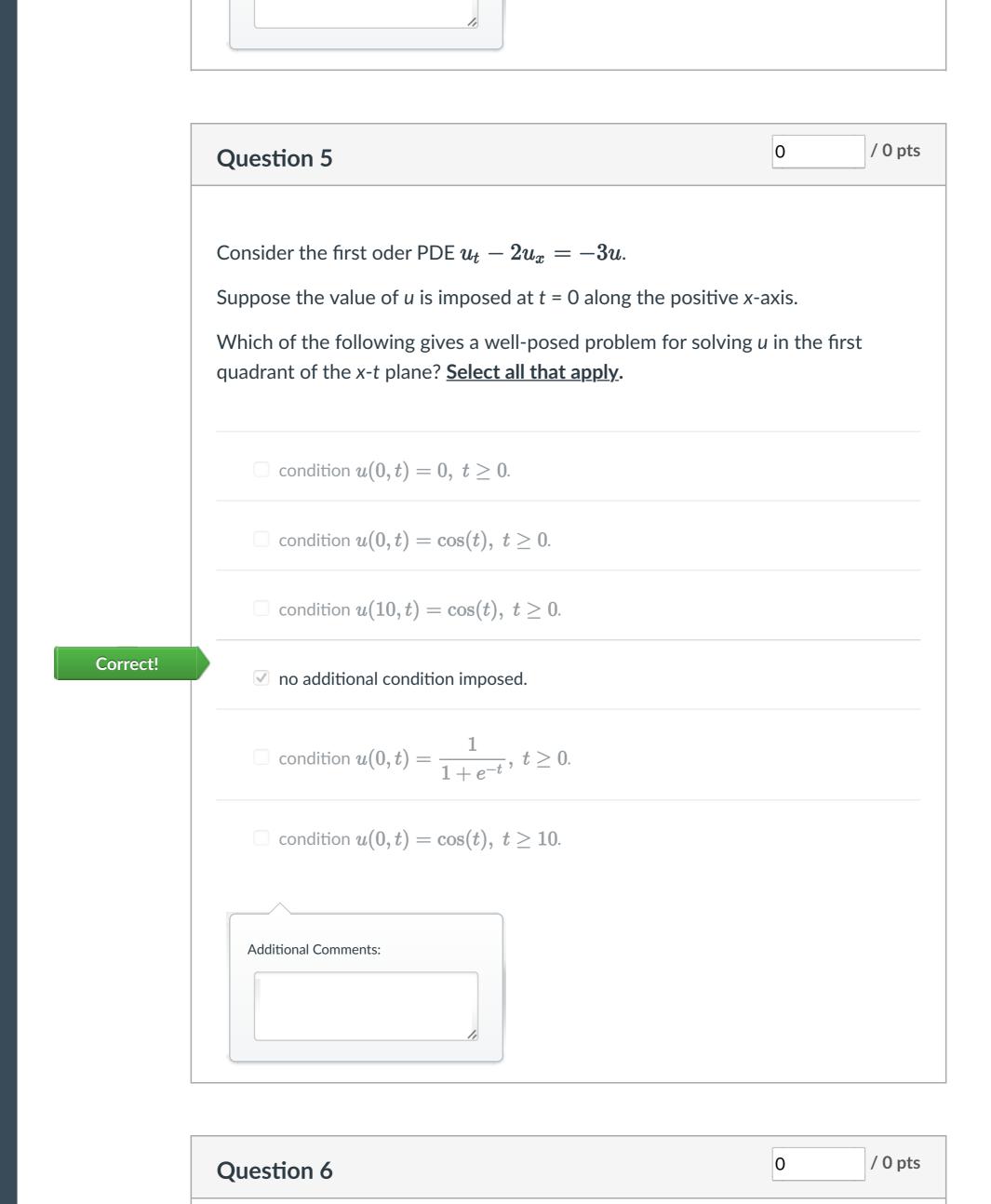
Additional Comments:

Correct!

Correct!

/ 0 pts

0



Consider the first oder PDE $u_t + 2u_x = -3u$.

quadrant of the x-t plane? Select all that apply.

 $otin condition <math>u(0,t) = 0, t \geq 0.$

 $otin condition <math>u(0,t) = \cos(t), t \geq 0.$

 \square condition $u(10,t)=\cos(t),\ t\geq 0.$

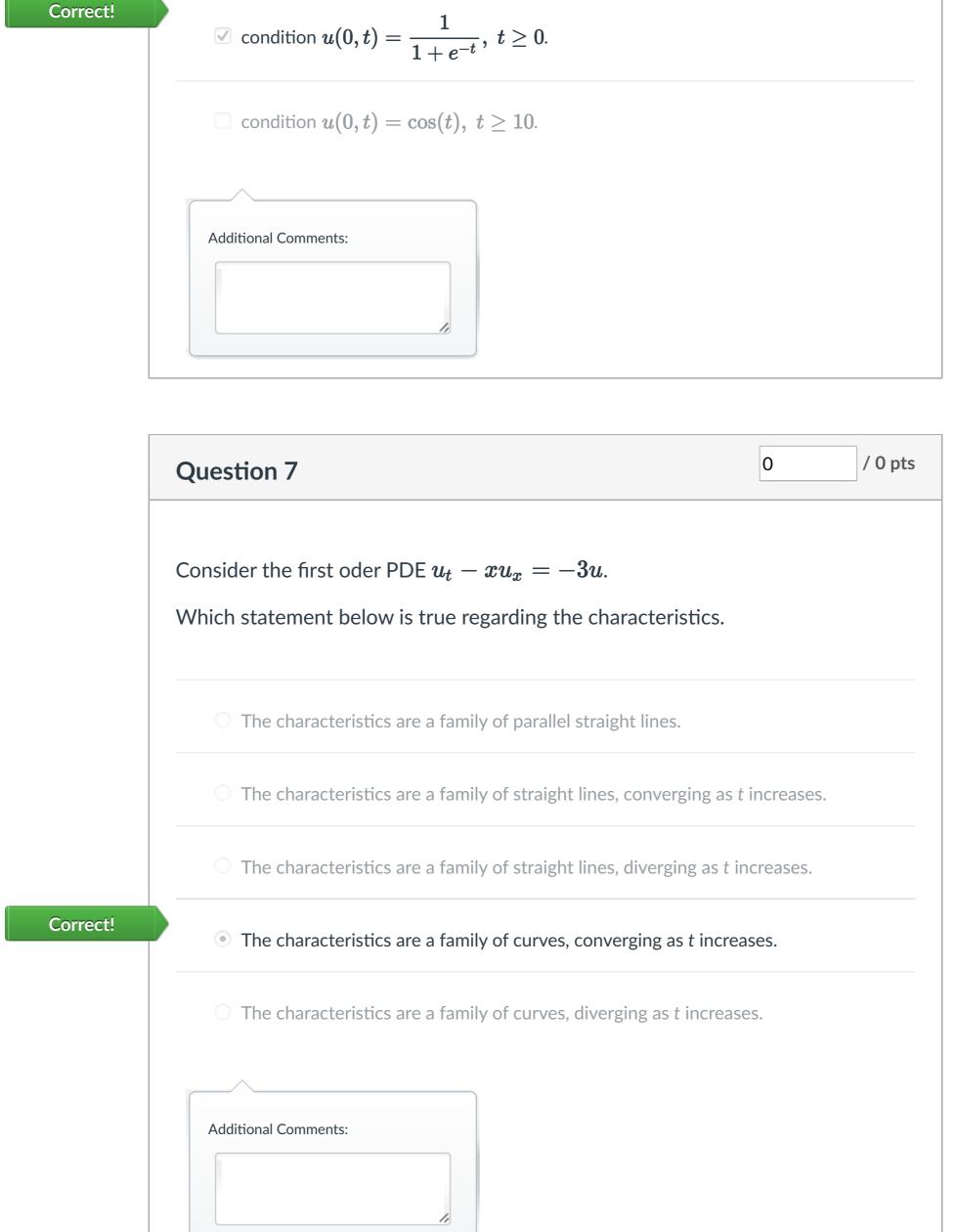
no additional condition imposed.

Correct!

Correct!

Suppose the value of u is imposed at t = 0 along the positive x-axis.

Which of the following gives a well-posed problem for solving *u* in the first



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                                                                                                    / 0 pts
               Question 8
               Consider the first oder PDE u_t + x u_x = -3u.
               Which statement below is true regarding the characteristics.
                    • The characteristics are a family of parallel straight lines.
                    The characteristics are a family of straight lines, converging as t increases.
                    • The characteristics are a family of straight lines, diverging as t increases.
                   • The characteristics are a family of curves, converging as t increases.
Correct!
                    • The characteristics are a family of curves, diverging as t increases.
                   Additional Comments:
Fudge Points:
You can manually adjust the score by adding positive or negative points to this box.
                                                                                                    Update Scores
Final Score: 1 out of 1
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Here's the latest quiz results for Test Student. You can modify the points for any question and add more comments, then

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Quiz Submissions
   Attempt 1: 1
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click "Update Scores" at the bottom of the page.