習題一

1.

A close up of a text

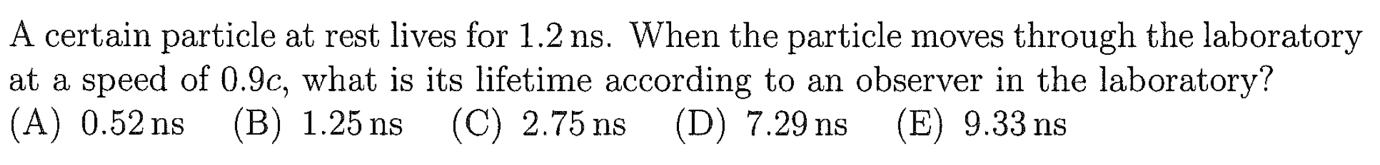
Description automatically generated

2.

A black text on a white background

Description automatically generated

3.



4.

A math equations and numbers

Description automatically generated with medium confidence

提示：

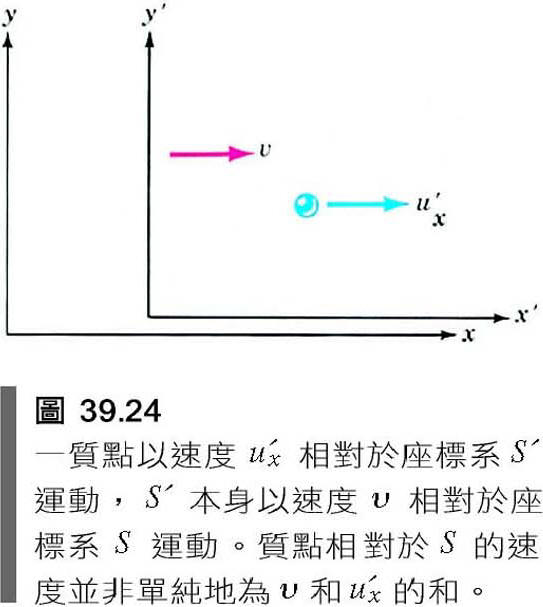
5.

A white paper with black text

Description automatically generated

Hint: problem (b) is bit challenging. You can try it but there is no need to hand it in. I’ll give you the solution later.

For Problem (a), you can treat Rocket A as the moving observer S’, and Rocket B as the particle the observers S and S’ are observing. Then while the answer will be , using the standard notation we used in class.



6.

A white text on a white background

Description automatically generated

7.

A graph of a function

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