



Problem of the Week

Problem D

Go Forth and Walk

At noon three students, Abby, Ben, and Cassie, are standing so that Abby is 100 m west of Ben and Cassie is 160 m east of Ben. While Ben stays in his initial position, Abby begins walking south at a constant rate of $20 \frac{\text{m}}{\text{min}}$ and Cassie begins walking north at a constant rate of $41 \frac{\text{m}}{\text{min}}$.

In how many minutes will the distance between Cassie and Ben be the twice the distance between Abby and Ben?

