This problem is very similar to the last part of the problem on "Machine Problems 2".

Remember what moving up the incline at a "constant velocity" means for the forces at work on it.

You must find the input force going in to come up with the final answer for this.

It takes six calculations to determine the input force; there are two different ways to find the efficiency after you know the input force.

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Here is a picture of the forces acting along the inclined plane.