

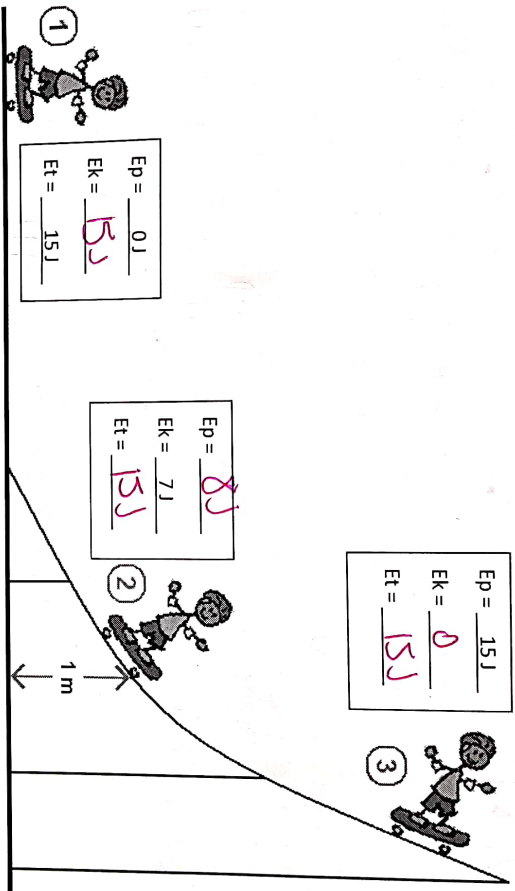
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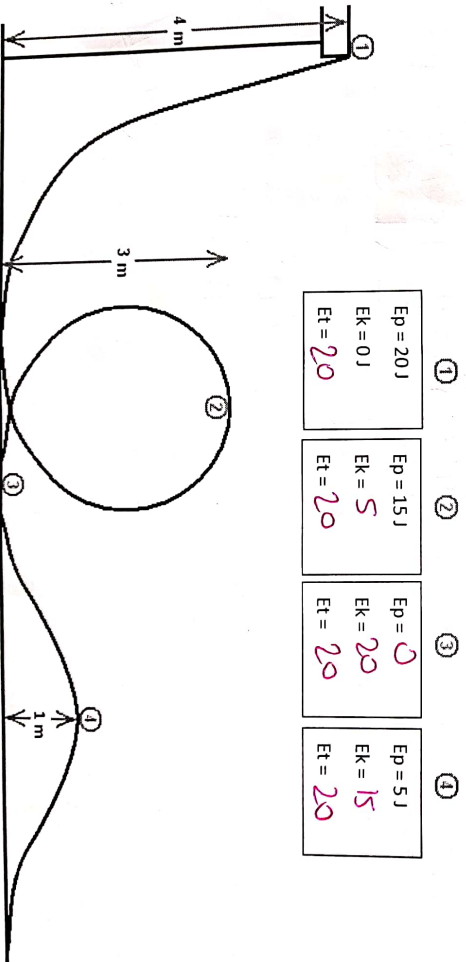
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Conservation of Energy 1

1) Fill in the missing values.



2) Fill in the missing values.



3) A 1.8 kg box is dropped from the top of a building. Its speed is 4.8 m/s when it is 2.9 m above the ground. What is the total energy at this point?

71.89 J

4) A young 28 kg Mr. Nguyen swings on a swing travelling 4.2 m/s. What is her potential energy if her total energy is 315 J?

68.04 J

5) Fill in the missing values for a 2 kg object to the nearest whole number.

| ① | ② | ③ | ④ | ⑤ |
|---------------|---------------|---------------|---------------|---------------|
| $E_p = 39.2$ | $E_p = 196$ | $E_p = 98$ | $E_p = 0$ | $E_p = 137.2$ |
| $E_k = 170$ | $E_k = 13.2$ | $E_k = 111.2$ | $E_k = 209.2$ | $E_k = 72$ |
| $E_t = 209.2$ | $E_t = 209.2$ | $E_t = 209.2$ | $E_t = 209.2$ | $E_t = 209.2$ |

