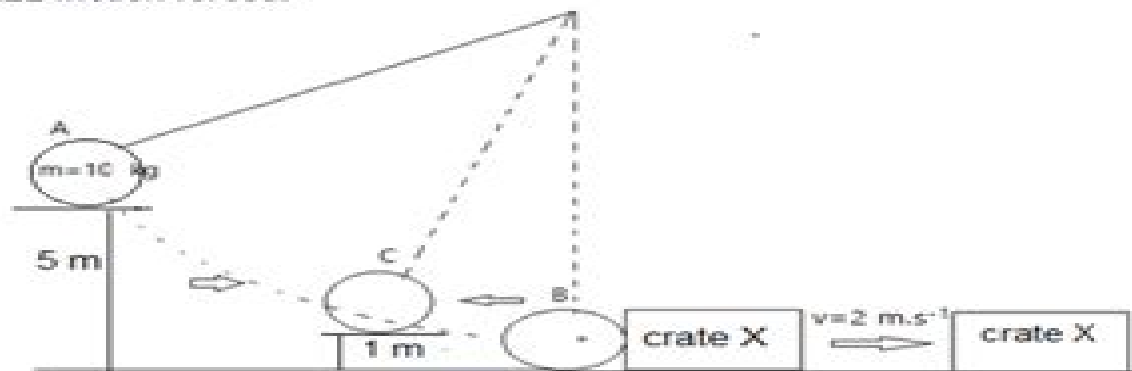


**QUESTION 3****[Start on a NEW Page]**

A metal sphere of mass 10 kg is suspended from a chain at a height of 5 m above the ground, at position A. The sphere is held in position A by means of an electromagnet as shown in the sketch below. When the electromagnet is switched off, the sphere swings down to position B, striking a stationary crate, X, of unknown mass.

The crate, X, moves to the right with a velocity of  $2 \text{ m} \cdot \text{s}^{-1}$ . The pendulum swings to the left and reaches a height of 1 m at position C. Ignore ALL friction forces.



3.1 State in words, the *principle of conservation of mechanical energy*. (2)

3.2 Calculate the kinetic energy of the sphere at position B, just before it collides with the crate. (3)

3.3 Show that the kinetic energy of crate X, when the sphere reaches point C, is 392 J. (3)

3.4 Hence, calculate the mass of the crate. (3)

3.5 After moving a short distance, crate X collides with a second crate, Y, of mass 150 kg which was moving towards it (to the left) at a velocity of  $0,5 \text{ m} \cdot \text{s}^{-1}$ . After the collision crate Y moves off to the right with a velocity of  $1 \text{ m} \cdot \text{s}^{-1}$ . Assume the surface to be frictionless.



3.5.1 State in words, the *principle of conservation of linear momentum*. (2)

3.5.2. Calculate the velocity of crate, X, immediately after the collision. (4)

**[17]**

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**Joacim Rocklöv**



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