MOSALA LEBURU.

OTHER OPTIONS FOR PHYSICAL SCIENCES P1

3.4 If used option 2 in 3.3 and uses the value in 3.4 option 2 APPLY positive marking

4.1.2. ~~4.2.1~~ ACCEPT principle of conservation of momemtum

4.2.2 ACCEPT Principle of conservation of

4.3 **OPTION 2**

$(m_1 + m_2)v_i = m_1v_{1f} + m_2v_{2f}$ ✓ $W_{net} = \Delta E_k$ ✓

both equations must be there for a learner to have a tick.

both equations 1 mark

alby vergelykings 1 punt

let velocity of $m_1 = x$ and $m_2 = y$

laat snelheid van $m_1 = x$ en $m_2 = y$

✓ $0 = 0,4x + 1,2(-y)$ ✓

$x = 3y$

✓ $\left(\frac{1}{4}x0,225\right) = \frac{1}{2}(1,2)v_f^2 - \frac{1}{2}(1,2)0^2$ ✓

$v_f = 0,31\ m\cdot s^{-1}$

$E_{K\,m1} = ½\ m_1\ (3y)^2$ or $½\ 0,4\ (3y)^2$

$E_{K\,m2} = ½\ m_2\ (y)^2$ or $½\ 1,2\ y^2$

$E_{Km1} : E_{Km2} = 3:1$ ✓

(6)

8.2

$R// = \frac{R_1R_2}{R_1 + R_2}$ ✓

$R// = \frac{2x2}{2+2}$ ✓

$= 1\ \Omega$

9.3 **OPTION 2**

$P = \frac{W}{\Delta t}$ ✓

$P = \frac{3x0,8x1}{2} = 1,2W$ ✓

$P = V \times I$ ✓

$V \times I \times \frac{80}{100} = 1,2$ ✓

$6 \times I \times \frac{80}{100} = 1,2$

$I = 0,25\ A$ ✓

2.4 J

$W = VI\Delta t$

$1.92 = 6(I)(2)$

10.4 Accept cosine graph for 1 cycle

$P = 1.2W$

$P = \frac{W}{\Delta t}$

$W = 2.4$