Andini | TPB 53 | IF

No 1. $V = V_0 \cos 60^\circ$

$= 40\ m/s . (0,5)$

$= 20\ m/s$

$P_1 + P_2 = P_1 + P_2$

$(6)(20) = (2)(-20) + (4)(v_2)$

$v_2 = \frac{(120) + (40)}{4}$

$= 40\ m/s$

Tenaga kinetik sebelum meledak

$K = \frac{1}{2}(m)(v_{peluru})^2$

$= \frac{1}{2}(6)(20)^2$

$= 1200\ J$

Setelah meledak

$K = K_{peluru\,1} + K_{peluru\,2}$

$= \frac{1}{2}(2)(20) + \frac{1}{2}(4)(40)$

$= 3600\ J$

Andri | TPB S3 | IF

No 2.

~~It = 14.400~~

~~T = S~~

~~F = 588~~ .

m = 60 kg.

a = 2 m/s → 10 m/s (10 - 2) = 8 m/s

s = 10 m

usaha = 60 x a x 10

= 60 x 8 x 10

= 4800 J