

46) CONSTRUCTIVE INTERFERENCE

PEAK - PEAK

OR

TROUGH - TROUGH

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47) N/3 (NEWTONS THIRD LAW)

For every Force there is an equal and opposite force

The force that the boy applies equals the force the girl applies

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48) Gravitational field is directed radially INWARD

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49)  $n = \frac{c}{v}$        $c$  is constant  
 $\uparrow$   $n = \frac{c}{v} \leftrightarrow$   
 $\downarrow$

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50)  $m = 7.5 \text{ kg}$

$h = 1.5 \text{ m}$

$KE = PE$

$PE = mgh$

$= (7.5 \text{ kg}) (9.81 \text{ m/s}^2) (1.5 \text{ m})$

$= 110 \text{ N}\cdot\text{m} \text{ or } \text{J}$