Physics 160 Written Homework - Chaptery

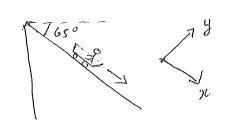
Solutions

(b)
$$V^2 - V_0^2 = 2\alpha \Delta n = 2\alpha (n-n_0)$$

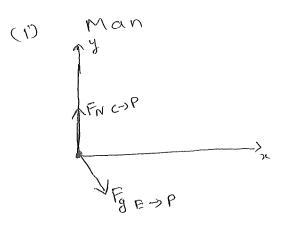
 $V_0 = 80 \text{ mph} = 128 \text{ km Ph} = 85.56 \text{ metror Persecond}$
 $V_0 = 80 \text{ mph} = 128 \text{ km Ph} = \frac{35.56}{20n} = \frac{35.56}{20n}$
 $V = 0$
 $V = 0$

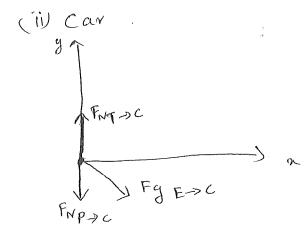
(C)
$$\angle F_i = ma = \sum F_a = ma$$

 $m = as,000 Lbs \neq as,000 \times 6.453 kg$
 $m = 43091.28 kg$
 $F = 43091.28 \times (-6321.57)$
 $F = 43091.28 \times (-6321.57)$



Free body chagrams





on the Free body deagrams one 3rd law Pairs Can be found they are Fresp (normal force car acts on man) 4 FNPSC (Normal (b) gorce man acts on car)

Fg E>P: Force Earth acts on Person due to gravity Its 3rd law pair is acted by Person on Earth Other & over.

" Normal force that Track eachs on car.

This 3rd law Perir is the force that car acts on Hack

FgE>c: Force Earth acts on car due to gravity.

The 3rd Law pain is acted by car on Earth.