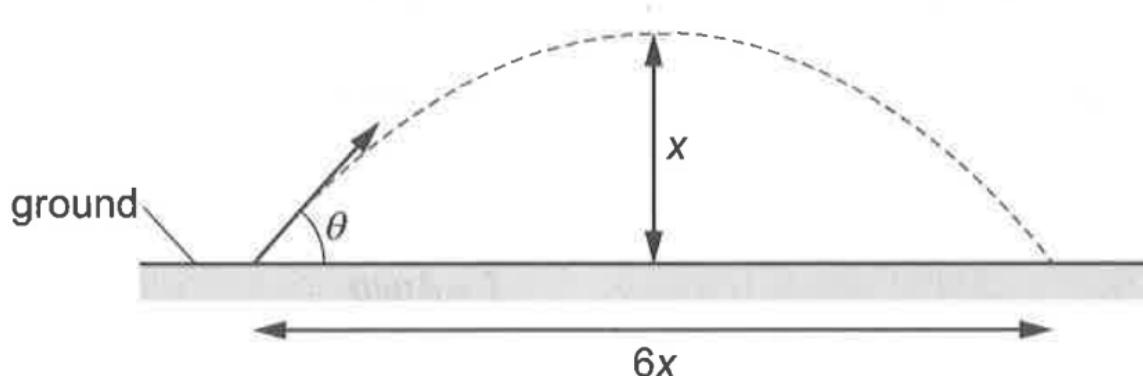


3 An object is launched at angle θ above horizontal ground.

The object reaches maximum height x and travels total horizontal distance $6x$, as shown.



Air resistance is negligible.

What is the value of $\tan\theta$?

A $\frac{1}{3}$

B $\frac{2}{3}$

C $\frac{3}{2}$

D 3

4 A cube of ice of density 0.92 g cm^{-3} and sides of length 2.0 cm floats in water of density 1.0 g cm^{-3} .