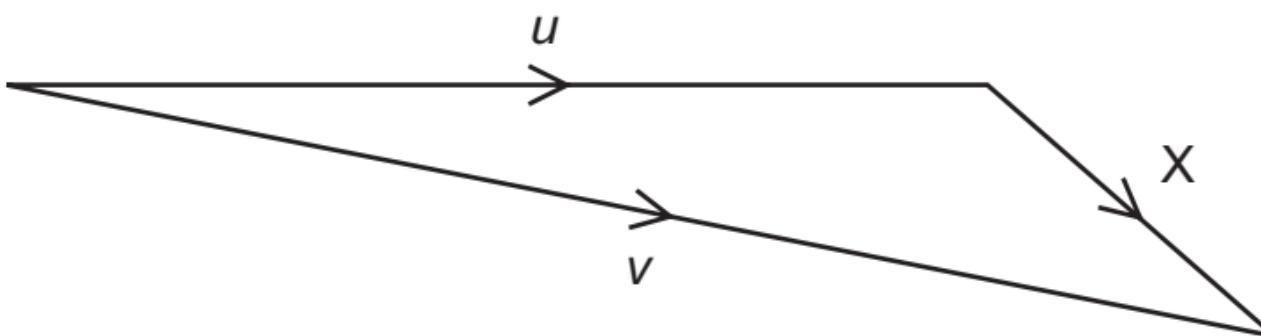


- 7 An object has an initial velocity u . It is subjected to a constant force F for t seconds, causing a constant acceleration a . The force is **not** in the same direction as the initial velocity.

A vector diagram is drawn to find the final velocity v .



What is the length of side X of the vector diagram?

A F

B Ft

C at

D $u + at$