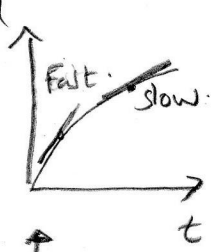
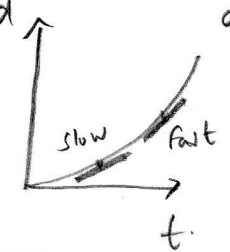
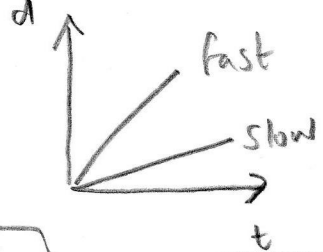
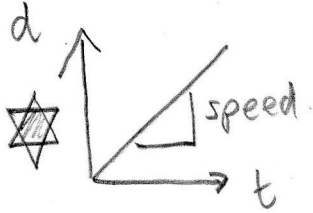


m/s
km/h
mm/s

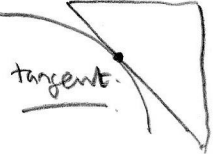
Speed = $\frac{\text{distance}}{\text{time}}$

$\frac{d}{s/t}$

Graphs



GRADIENT INDICATES SPEED



P9 Motion

(*GIVEN IN EXAM)

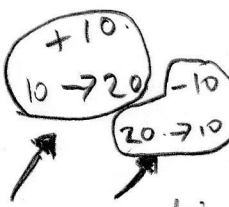
$v^2 = u^2 + 2as$

↑ end vel.
↑ start v
↑ a/cch

displacement (how far)
s



$\frac{c}{a/t}$



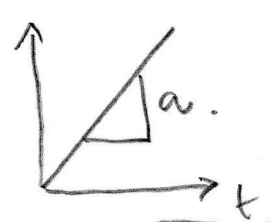
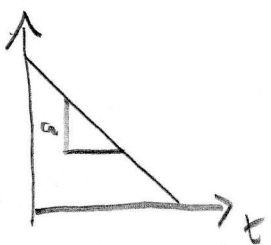
velocity → +
← -
Speed with direction
Vector.

acceleration = $\frac{\text{change in velocity}}{\text{time}}$
m/s/s
"m/s every second"

decelerating
slowing down

speeding up

slowing down



constant v
(a=0)

Graphs



GRADIENT INDICATES ACCELERATION

DONT CONFUSE GRAPHS
!!!!

distance = area under graph
A + B + C
 $\frac{10 \times 4}{2} + 10 \times 4 + \frac{10 \times 2}{2}$
= 20 + 40 + 10
= 70m

