## Gradient

S1-S3, National 4

1. Find the gradients of the lines shown in the diagram below

2. The diagram shows a moving ramp, $\boldsymbol{r}$, between two floors in FLOOR 2 a shopping centre


Find the gradient of the ramp.
3. A special stage is being built for an outdoor concert. It has to be 20 metres wide, 2 metres high and have a ramp on one side.


To be safe the gradient of the ramp should be between 0.25 and 0.3 .
Is this ramp safe?
Show all your working and give a reason for your answer.

