Mathematics

## Comparing gradients Downloadable Resource

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## Try this

How many ways could you move one vertex to make this a right angled triangle?


## Connect

Move A to orange $X$
Move B to purple X

Move C to blue $X$


## Connect

Move A to any point on the orange line

Move $B$ to any point on the purple line

Move $C$ to any point on the blue line


## Independent task

Calculate the gradient of the line segments:
a) LK
b) AV
c) A 14
d) LF
e) 5 K
f) N 17
g) 117

2) Give a line segment that will be parallel to LK
3) Which of the line segments are perpendicular?

## Explore

Find the gradient of the perpendicular line segments of each of these triangles, what do you notice?

| Line segment | Gradient |
| :--- | :--- |
| AB |  |
| BC |  |
| DE |  |
| EF |  |
| IH |  |
| HG |  |
| JK |  |
| KL |  |



