Engage | Inspire | Achieve

## 1. Goals



## 2. Theoretical Components

Readings:
Work through Examples 15 \& 16.

Pay particular attention to the layout and where possible set up your working out as shown in these examples.

Collinear points: three or more points are collinear if they all lie on a single line.

Concurrent lines: three or more lines are concurrent if they all pass through a single point.


## 3. Practical Components

Ex 17E: Attempt all the questions.

Lay out your work neatly.

## 4. Investigation

A vector of magnitude OP in the direction from O to P is represented by OP . If $O P-30 Q+20 R=0$, show that $P, Q, R$ are collinear.

Use an appropriate diagram and vector arithmetic to establish that $\mathrm{P}, \mathrm{Q} \& \mathrm{R}$ are collinear.

20 marks (see rubric)

