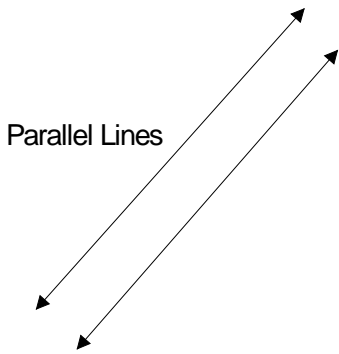
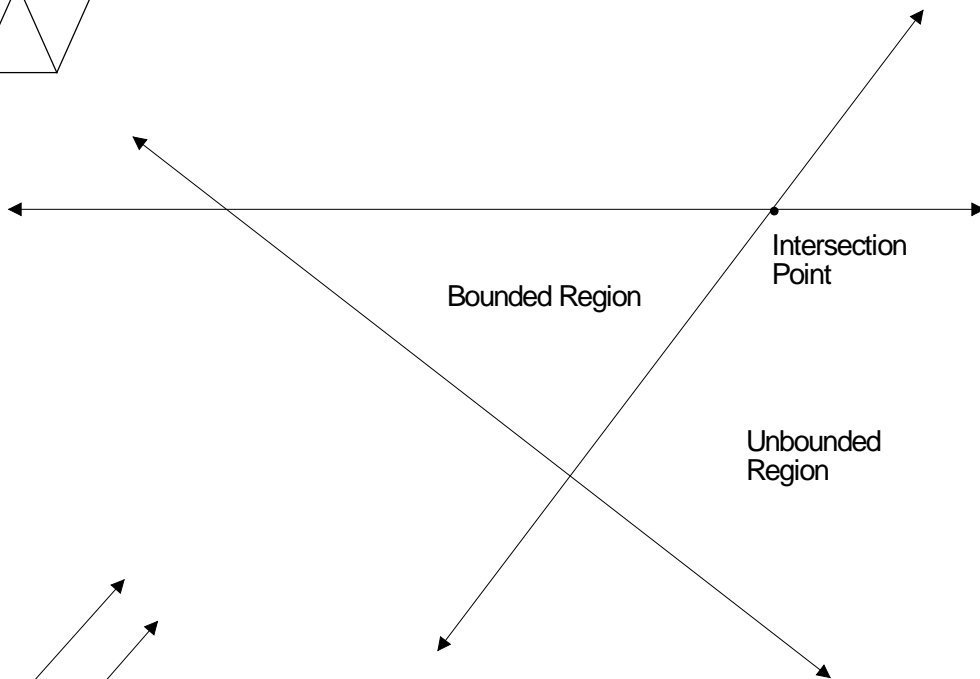
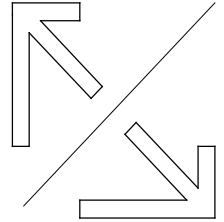
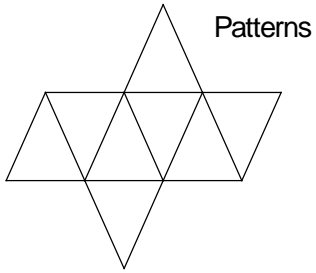


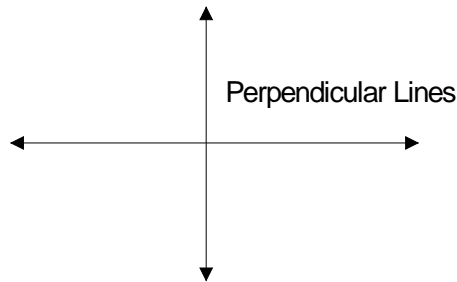
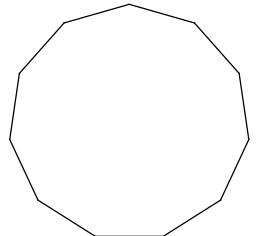
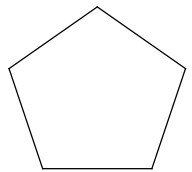


Name:
Year 10 Mathematics Extension Investigation "Lines Drawn on a Plane" 20 marks Due: Monday 21st September

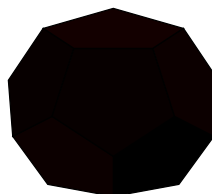
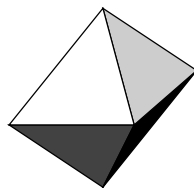
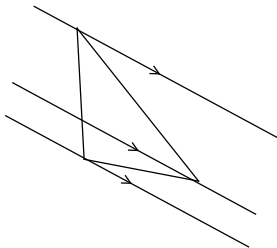
Lines are drawn on a plane.... Investigate ????



Different Shapes



Three Dimensional





Name:

Year 10 Mathematics Extension
 Investigation "Lines Drawn on a Plane"
 20 marks Due: **Monday 21st September**

Marking Key and Cover Page

Comprehension

- Has demonstrated no understanding of what the investigation is asking. 0
- Demonstrates a limited understanding. 1
- Fully understands the situation presented. 2

Strategies

- Has developed no strategies to determine mathematical conjectures. 0
- Has developed a suitable strategy to explore one area. 1
- Has developed a number of strategies and conjectures. 2
- Has developed a number of strategies and conjectures. 3
- Has developed a number of strategies and conjectures. 4

Generalisations

- Has made no generalisations or conjectures. 0
- Has made one substantial and accurate generalisation. 1
- Has demonstrated a number of suitable generalisations. 2
- Has demonstrated a number of suitable generalisations. 3
- Has demonstrated a number of suitable generalisations. 4
- Has demonstrated a number of suitable generalisations. 5

Justification

- Has given no explanation of generalisations. 0
- Has demonstrated some justification. 1
- Has demonstrated some justification. 2
- Has clearly justified a number of tested conjectures. 3
- Has clearly justified a number of tested conjectures. 4
- Has clearly justified a number of tested conjectures. 5

Communication

- No communication evident. 0
- Limited mathematical report skills demonstrated. 1
- Good communication skills demonstrated. 2
- Good communication skills demonstrated. 3
- Report is neat, clear, concise and logical. 4

Total

/20