



Year 11- Mathematics Advanced

Locus and Parabola



Locus and the parabola Exam /15

1. (4 marks)

For the parabola $(x-4)^2 = -12(y-3)$, find the focal length, vertex, focus and directrix.

2. (2 marks)

Find the equation of the parabola whose focus is (2,5) and directrix is y=-3.

3. (3 marks)

Find the equation of the parabola with vertex (4,3) and y-intercept -2

- **4**. **(3 marks)** Sketch $y^2 = 7x$
- 5. (3 marks) Sketch $(y-3)^2 = 12(x-2)$