Princess Vulnavia presents … Cloud 9; Revision Raindrops

The Line of Symmetry of a Parabola

Raindrop 2b: Exercise

2b(i) Find the equation of the line of symmetry of the parabola: $y = 4x^2 - 12x + 5$

(ii) Find the coordinates of the turning point of this parabola.

(iii) Describe the nature of the turning point.

The answers follow on the next page …

2b(i) Find the equation of the line of symmetry of the parabola: $y = 4x^2 - 12x + 5$

<u>Answer</u>: The equation of the line of symmetry is: $x = \dfrac{3}{2}$

(ii) Find the coordinates of the turning point of this parabola.

<u>Answer</u>: The coordinates of the turning point are $\{ \dfrac{3}{2} , -4 \}$

(iii) Describe the nature of the turning point.

<u>Answer</u>

The turning point is a **minimum**.