**Finding Stationary Points on Graphs of Rational Functions**

**Graphs with** **one stationary point**.



Process to find coordinates of the stationary point:

\*\*\*

For equal roots, :

,

No point on graph for which , therefore stationary point at .

Use \*\*\* to find *x* value:

Coordinates of minimum point are .

**Graphs with** **two stationary points**.



Process to find coordinates of the stationary point:

\*\*\*

For equal roots, :

,

Maximum value is , minimum value at .

Use \*\*\* to find *x* values:

For :

For :

Coordinates of minimum point are , coordinates of maximum point are .