### 7th September

The point A has coordinates \((-12, -7)\) and the point B has coordinates \((-8, 1)\).

Find the equation of the line parallel to AB and passing through \((2, 5)\).

Angle SRT is 53°, to the nearest degree. ST is 17cm to the nearest centimetre.

Work out the upper bound for the length of RS.

\( y = f(x) \) has a minimum point at \((-7, -4)\).

The graph of \( y = f(x) + a \) has a minimum point at \((-7, 0)\), where \(a\) is a constant.

Write down the value of \(a\).

Make \(y\) the subject of

\[
\frac{8}{x} = \frac{3}{y} + \frac{2}{5}
\]

Sketch \(x^2 + y^2 = 9\).