10th April

y is inversely proportional to the cube of x. If y = 4, x = 2.

Find y when x = 1.

What is the vector AB?

Calculate the distance AE

Simplify
\[
\frac{x^2 + 10x + 24}{x^2 - 36}
\]

Mrs Jenkins is making decorations for a wedding. She needs \(19\sqrt{5}\) metres of ribbon in total. Mrs Jenkins has 40 metres of ribbon. Does she have enough ribbon?