Princess Vulnavia presents … Cloud 9; Revision Raindrops

Surd Form: Rationalising the Denominator

Raindrop 4c: Exercise

Prove, without using a calculator and showing all necessary working, that:

$$\frac{2}{\sqrt2 + \sqrt3 + \sqrt5} \equiv \frac{\sqrt6}{6}(\sqrt2 + \sqrt3 - \sqrt5)$$