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**DR**

$$\frac{1}{\sqrt{2} + 1} + \frac{1}{\sqrt{3} + \sqrt{2}} + \frac{1}{\sqrt{4} + \sqrt{3}}$$

$$\frac{\sqrt{2} - 1}{2 - 1} + \frac{\sqrt{3} - \sqrt{2}}{1} + \frac{\sqrt{4} - \sqrt{3}}{1}$$

$$\sqrt{2} - 1 + \sqrt{3} - \sqrt{2} + 2 - \sqrt{3} = 1$$

**B1****1.1a**

Substituting values

**M1****3.1a**

Attempt to rationalise denominator for one term

**A1****1.1**

All correct

**A1****2.1**Convincing completion (**AG**)**[4]**

Either  $\times \frac{\sqrt{2}-1}{\sqrt{2}-1}$  or  $\frac{\sqrt{2}-1}{2-1}$   
at least once for M1