

## Surds: Rationalising the Denominator (2)

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

8.  $\frac{\sqrt{5}}{\sqrt{5}-3}$

2.  $\frac{2}{3+\sqrt{2}}$

9.  $\frac{\sqrt{5}}{5-\sqrt{3}}$

3.  $\frac{2}{3-\sqrt{2}}$

10.  $\frac{2\sqrt{5}}{5-\sqrt{3}}$

4.  $\frac{7}{3-\sqrt{2}}$

11.  $\frac{4\sqrt{5}}{5-\sqrt{3}}$

5.  $\frac{7}{\sqrt{2}-3}$

12.  $\frac{4\sqrt{5}}{5-2\sqrt{3}}$

6.  $\frac{7}{\sqrt{7}-3}$

13.  $\frac{4\sqrt{5}}{5-3\sqrt{3}}$

7.  $\frac{\sqrt{7}}{\sqrt{7}-3}$

14.  $\frac{4\sqrt{3}}{5-3\sqrt{3}}$

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## Surds: Rationalising the Denominator (2) ANSWERS

1.  $\frac{6-2\sqrt{2}}{7}$

2.  $\frac{6-2\sqrt{2}}{7}$

3.  $\frac{6+2\sqrt{2}}{7}$

4.  $3 + \sqrt{2}$

5.  $-3 - \sqrt{2}$

6.  $-\frac{21+7\sqrt{7}}{2}$

7.  $-\frac{7+3\sqrt{7}}{2}$

8.  $-\frac{5+3\sqrt{5}}{4}$

9.  $\frac{\sqrt{15+5\sqrt{5}}}{22}$

10.  $\frac{\sqrt{15+5\sqrt{5}}}{11}$

11.  $\frac{2\sqrt{15+10\sqrt{5}}}{11}$

12.  $\frac{8\sqrt{15+20\sqrt{5}}}{13}$

13.  $-6\sqrt{15} - 10\sqrt{5}$

14.  $-18 - 10\sqrt{3}$

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