# Rationalising the denominator

Rationalise the denominator,

**1)** $\frac{2}{4+\sqrt{7}}$

**2)** $\frac{4}{2+\sqrt{3}}$

**3)** $\frac{4}{4+\sqrt{6}}$

**4)** $\frac{2}{4+\sqrt{5}}$

**5)** $\frac{2}{4+\sqrt{3}}$

**6)** $\frac{3}{2+\sqrt{3}}$

**7)** $\frac{4}{4+\sqrt{7}}$

**8)** $\frac{5}{2+\sqrt{7}}$

**9)** $\frac{3}{3+\sqrt{7}}$

**10)** $\frac{4}{2+\sqrt{7}}$

**11)** $\frac{3}{4+\sqrt{3}}$

**12)** $\frac{5}{3+\sqrt{6}}$

**13)** $\frac{3}{5+\sqrt{7}}$

**14)** $\frac{4}{3+\sqrt{5}}$

**15)** $\frac{3}{4+\sqrt{3}}$

**16)** $\frac{2}{3+\sqrt{5}}$

**17)** $\frac{5}{2+\sqrt{6}}$

**18)** $\frac{3}{3+\sqrt{2}}$

**19)** $\frac{2}{5+\sqrt{5}}$

**20)** $\frac{5}{5+\sqrt{6}}$

# Rationalising the denominator

**1)** $\frac{2}{4+\sqrt{7}} = \frac{8-2\sqrt{7}}{9}$

**2)** $\frac{4}{2+\sqrt{3}} = 8-4\sqrt{3}$

**3)** $\frac{4}{4+\sqrt{6}} = \frac{8-2\sqrt{6}}{5}$

**4)** $\frac{2}{4+\sqrt{5}} = \frac{8-2\sqrt{5}}{11}$

**5)** $\frac{2}{4+\sqrt{3}} = \frac{8-2\sqrt{3}}{13}$

**6)** $\frac{3}{2+\sqrt{3}} = 6-3\sqrt{3}$

**7)** $\frac{4}{4+\sqrt{7}} = \frac{16-4\sqrt{7}}{9}$

**8)** $\frac{5}{2+\sqrt{7}} = \frac{-10+5\sqrt{7}}{3}$

**9)** $\frac{3}{3+\sqrt{7}} = \frac{9-3\sqrt{7}}{2}$

**10)** $\frac{4}{2+\sqrt{7}} = \frac{-8+4\sqrt{7}}{3}$

**11)** $\frac{3}{4+\sqrt{3}} = \frac{12-3\sqrt{3}}{13}$

**12)** $\frac{5}{3+\sqrt{6}} = \frac{15-5\sqrt{6}}{3}$

**13)** $\frac{3}{5+\sqrt{7}} = \frac{5-\sqrt{7}}{6}$

**14)** $\frac{4}{3+\sqrt{5}} = 3-\sqrt{5}$

**15)** $\frac{3}{4+\sqrt{3}} = \frac{12-3\sqrt{3}}{13}$

**16)** $\frac{2}{3+\sqrt{5}} = \frac{3-\sqrt{5}}{2}$

**17)** $\frac{5}{2+\sqrt{6}} = \frac{-10+5\sqrt{6}}{2}$

**18)** $\frac{3}{3+\sqrt{2}} = \frac{9-3\sqrt{2}}{7}$

**19)** $\frac{2}{5+\sqrt{5}} = \frac{5-\sqrt{5}}{10}$

**20)** $\frac{5}{5+\sqrt{6}} = \frac{25-5\sqrt{6}}{19}$