Rationalising the Denominator

Rationalise the denominator.

(a) $\dfrac{1}{\sqrt{5}}$

(b) $\dfrac{2}{\sqrt{5}}$

(c) $\dfrac{2}{\sqrt{7}}$

(d) $\dfrac{\sqrt{2}}{\sqrt{7}}$

(e) $\dfrac{2\sqrt{2}}{\sqrt{5}}$

(f) $\dfrac{2}{3\sqrt{5}}$

Rationalise the denominator.

(a) $\dfrac{6\sqrt{2}}{\sqrt{6}}$

(b) $\dfrac{5\sqrt{2}}{\sqrt{10}}$

(c) $\dfrac{5\sqrt{3}}{\sqrt{6}}$

(d) $\dfrac{2\sqrt{6}}{\sqrt{15}}$

Rationalise the denominator.

(a) $\dfrac{1+\sqrt{2}}{\sqrt{5}}$

(b) $\dfrac{2-\sqrt{2}}{\sqrt{5}}$

(c) $\dfrac{2-3\sqrt{2}}{\sqrt{7}}$

(d) $\dfrac{5+\sqrt{5}}{\sqrt{3}}$

(e) $\dfrac{10-\sqrt{2}}{\sqrt{3}}$

(f) $\dfrac{2+\sqrt{3}}{3\sqrt{5}}$

Rationalise the denominator.

(a) $\dfrac{1}{2+\sqrt{5}}$

(b) $\dfrac{2}{2-\sqrt{5}}$

(c) $\dfrac{\sqrt{2}}{3+\sqrt{7}}$

(d) $\dfrac{2\sqrt{5}}{3-\sqrt{7}}$

(e) $\dfrac{10\sqrt{2}}{5+\sqrt{3}}$

(f) $\dfrac{2+\sqrt{3}}{3-\sqrt{5}}$

(g) $\dfrac{2+\sqrt{3}}{5+\sqrt{3}}$

(h) $\dfrac{2+3\sqrt{3}}{3-4\sqrt{5}}$