

EXERCISE 1(F)

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1. Write the rationalising factor of the denominator in $\frac{1}{\sqrt{2} + \sqrt{3}}$

Solution:

The rationalising factor of the denominator in $\frac{1}{\sqrt{2} + \sqrt{3}}$ is $(\sqrt{2} - \sqrt{3})$.

2. Rationalise the denominator of each of the following.

- (i) $\frac{1}{\sqrt{7}}$
- (ii) $\frac{\sqrt{5}}{2\sqrt{3}}$
- (iii) $\frac{1}{2 + \sqrt{3}}$
- (iv) $\frac{1}{\sqrt{5} - 2}$
- (v) $\frac{1}{5 + 3\sqrt{2}}$
- (vi) $\frac{1}{\sqrt{7} - \sqrt{6}}$
- (vii) $\frac{4}{\sqrt{11} - \sqrt{7}}$
- (viii) $\frac{1 + \sqrt{2}}{2 - \sqrt{2}}$
- (ix) $\frac{3 - 2\sqrt{2}}{3 + 2\sqrt{2}}$

Solution:

- (i) Multiply both numerator and denominator by $\sqrt{7}$

So we get,
 $\frac{1}{\sqrt{7}}$

On further calculation

$$= \frac{1}{\sqrt{7}} \times \frac{\sqrt{7}}{\sqrt{7}}$$

Removing the similar terms

$$= \frac{\sqrt{7}}{7}$$

- (ii) Multiply both numerator and denominator by $\sqrt{3}$

So we get,

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