

# CBSEASSISTANCE.COM

NUMBER SYSTEM  
CLASS 9  
ASSIGNMENT 1

Rationalise the denominator of the following:

(i)  $\frac{6\sqrt{7}}{5+2\sqrt{3}}$

(ii)  $\frac{2\sqrt{5}}{7+2\sqrt{3}}$

(iii)  $\frac{\sqrt{7}}{3+2\sqrt{2}}$

(iv)  $\frac{5+\sqrt{6}}{5-\sqrt{6}}$

(v)  $\frac{6\sqrt{11}}{2+2\sqrt{3}}$

(vi)  $\frac{2\sqrt{3}}{3+2\sqrt{7}}$

(vii)  $\frac{8\sqrt{3}}{6-2\sqrt{2}}$

(viii)  $\frac{2+\sqrt{3}}{2-\sqrt{3}}$

(ix)  $\frac{2\sqrt{6}+\sqrt{5}}{3\sqrt{5}-2\sqrt{6}}$

(x)  $\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$

(xi)  $\frac{2\sqrt{3}-\sqrt{5}}{2\sqrt{2}+\sqrt{3}}$

(xii)  $\frac{\sqrt{3}-1}{\sqrt{3}+1}$

(xiii)  $\frac{2\sqrt{3}-\sqrt{5}}{2\sqrt{2}+3\sqrt{3}}$

(xiv)  $\frac{\sqrt{3}+1}{2\sqrt{2}-\sqrt{3}}$