Codeyoung

Concept_Grade-9_Real Numbers

Rationalization

1. Write the rationalizing factor of $\frac{1}{\sqrt{50}}$
2. Rationalize the denominator of $\frac{2}{3\sqrt{3}}$
3. If $\sqrt{2}$ = 1.414, then, find the value of $\frac{1}{\sqrt{2}+1}$
4. Taking$\sqrt{2}$ = 1.414 and π =3.141 evaluate $\frac{1}{\sqrt{2}}+\pi$ upto three places of decimal.
5. If x = $3-2\sqrt{2}$, find the value of $\sqrt{x}+\frac{1}{\sqrt{x}}$
6. Rationalize the denominator : $\frac{1}{2\sqrt{7}+3\sqrt{3}}$
7. If x = $\frac{1}{3-2\sqrt{2}}$ and y = $\frac{1}{3+2\sqrt{2}}$, then find the value of x + y+ xy.