

Ch: 1 Rational No.

1. Represent $\sqrt{7}$ on the number line [03]
2. Find $\frac{p}{q}$ form of the following [06]
 - (i) $0.0\overline{8}$ (ii) $0.12\overline{7}$ (iii) $1.89\overline{7}$
3. Represent $\sqrt{6.8}$ on the number line. [1.5]
4. Simplify [08]
 - (i) $(5 + \sqrt{7})(5 - \sqrt{7})$
 - (ii) $(\sqrt{3} + \sqrt{11})^2$
 - (iii) $(\sqrt{11} + \sqrt{3})(\sqrt{11} - \sqrt{3})$
 - (iv) $(\sqrt{13} - \sqrt{2})^2$
5. Rationalise the denominator [7.5]
 - (i) $\frac{1}{7 + \sqrt{13}}$ (ii) $\frac{1}{13 + 3\sqrt{7}}$ (iii) $\frac{7}{\sqrt{7} - \sqrt{6}}$
6. Find [04]
 - (i) $(324)^{\frac{1}{2}}$ (ii) $9^{\frac{3}{2}}$
 - (iii) $(125)^{\frac{-1}{3}}$ (iv) $(1331)^{\frac{-1}{4}}$

Best of Luck