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NUMBER SYSTEM

ASSIGNMENT 2

- $\frac{p}{q}$ form of the number $0.\bar{3}$ is:
 - $\frac{3}{10}$
 - $\frac{3}{100}$
 - $\frac{1}{3}$
 - $\frac{1}{2}$
- Simplify $\left(\frac{64}{125}\right)^{-\frac{2}{3}}$
- Simplify: $(\sqrt{3} + 2)(\sqrt{3} - 2)$
- Find the value of $\left(\frac{64}{125}\right)^{-\frac{2}{3}} + \frac{1}{\left(\frac{256}{625}\right)^{\frac{1}{4}}} + \frac{\sqrt{25}}{\sqrt[3]{64}}$
- Represent $\sqrt{3}$ on the number line.
- Prove that $\frac{1}{2+\sqrt{3}} + \frac{2}{\sqrt{5}-\sqrt{3}} + \frac{1}{2-\sqrt{5}} = 0$
- Find the values of a and b if $\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}} = a + \sqrt{5}b$
- Evaluate after rationalizing the denominator $\left(\frac{25}{\sqrt{40}-\sqrt{80}}\right)$. It is given that $\sqrt{5} = 2.236$ and $\sqrt{10} = 3.162$
- Simplify $\frac{1}{2+\sqrt{5}} + \frac{1}{\sqrt{5}+\sqrt{6}} + \frac{1}{\sqrt{6}+\sqrt{7}} + \frac{1}{\sqrt{7}+\sqrt{8}}$