NUMBER SYSTEM

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Q1. Cimplify

i)
$$\sqrt[3]{2}$$
, $\sqrt[3]{32}$ ii) $\sqrt[3]{54}$

[Ans i) 4 ii) $\sqrt[3]{3}$

Or Cimplify i)
$$3\sqrt{\frac{27}{64}}$$
 ii) $4\sqrt{\frac{1000}{63}}$

$$\left[Aus:=i\right]\frac{3}{4}$$
 $ii)$ 2

$$\int_{2}^{1} - 2\sqrt{8} + \frac{3}{\sqrt{2}}$$
 [Ams! $\frac{3}{2}$]

Simplify:
$$(3 - 2\sqrt{8} + 3 - 1)$$
 [Ans: $(3 - 2\sqrt{8})$]

Simplify: $(4\sqrt{3} - 2\sqrt{8} + 3 - 1)$ [Ans: $(3 - 2\sqrt{8})$]

We will be conjugated to a simplify: $(4\sqrt{3} - 4\sqrt{3})$ [Ans: $(3\sqrt{3})$]

We will be conjugated to a simplify: $(4\sqrt{3} + 2\sqrt{18})$ [Ans: $(3\sqrt{3})$]

And $(3\sqrt{3})$ [Ans: $(3\sqrt{3})$]

And $(3\sqrt{3})$ [Ans: $(3\sqrt{3})$]

Simplify: $(3\sqrt{3})$ $(3\sqrt{3})$ [Ans: $(3\sqrt{3})$]

And $(3\sqrt{3})$ [Ans: $(3\sqrt{3})$]

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Q8. Rationalise the denominator of
$$\frac{6-452}{6+452}$$

i)
$$\frac{\sqrt{3}-1}{\sqrt{3}+1} = a+b\sqrt{3}$$

ii)
$$\frac{5+253}{7+453} = a+b53$$

[Aus i)
$$a=2$$
 ii) $a=11$ $b=-6$]