

be fast

be accurate

be good

all the best

1) Find value of $\sin^2 30^\circ - \cos^2 30^\circ$

$$\left(\frac{1}{2}\right)^2 - \left(\frac{\sqrt{3}}{2}\right)^2$$

$$= \frac{1}{4} - \frac{3}{4}$$

$$= \frac{-2}{4} \}$$

$$= \frac{-1}{2} \text{ Ans}$$

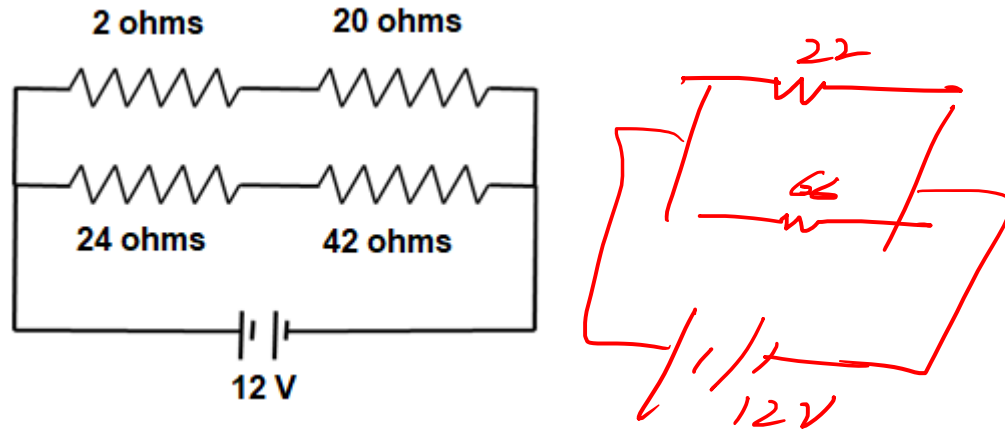
Aishna Jain

2) Name the gas generally filled in potato chips packets to prevent rancidity.

Nitrogen
✓ →

Daktol Vitka

3) Find resultant resistance for the following circuit:



$$\frac{1}{R} = \frac{1}{22} + \frac{1}{66}$$

$$= \frac{3+1}{66}$$

$$\frac{1}{R} = \frac{4}{66}$$

$$R = \frac{66}{4} = 16.5$$

$$R = \frac{33}{2}$$

or

$$R = 16.5 \Omega$$

Medhansh
Nanda

4) Find number of solutions:

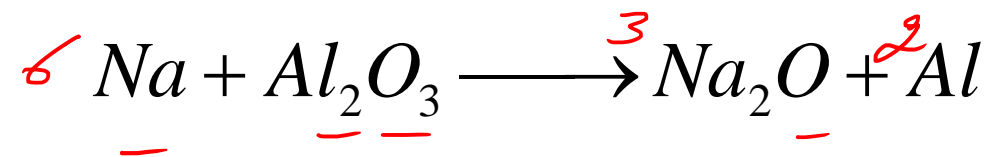
$$2x + 3y = 5, 4x + 6y = 10$$

$$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2} = \frac{1}{2}$$

infinite solⁿ

Medhansh Nanda

5) Balance the following equation. (share stoichiometric coefficients only)



6 1 3 2

Satyam

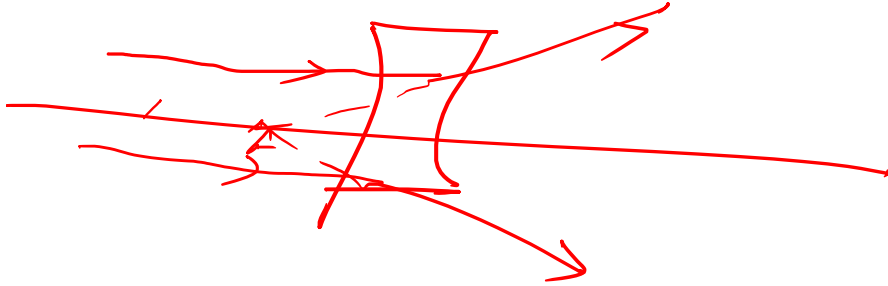
6) Find zeroes of polynomial $4x^2 - 100$

$$4x^2 - 100$$
$$(2x)^2 - (10)^2$$
$$(2x + 10)(2x - 10)$$

$$x = -5, 5$$

Shreyas Jain

7) What is the nature of concave lens?



divergent

Himanshi

8) What is the common name of bleaching powder?

bleaching
powder

Hitansh
Sulati

9) Which of the following numbers do not have terminating decimal representation?

(a) $\frac{7}{5000}$ ✓ = $\frac{7}{5^4 \times 2^3}$ T

(b) $\frac{21}{15000}$ ✓ T

(c) $\frac{12}{15000}$ T

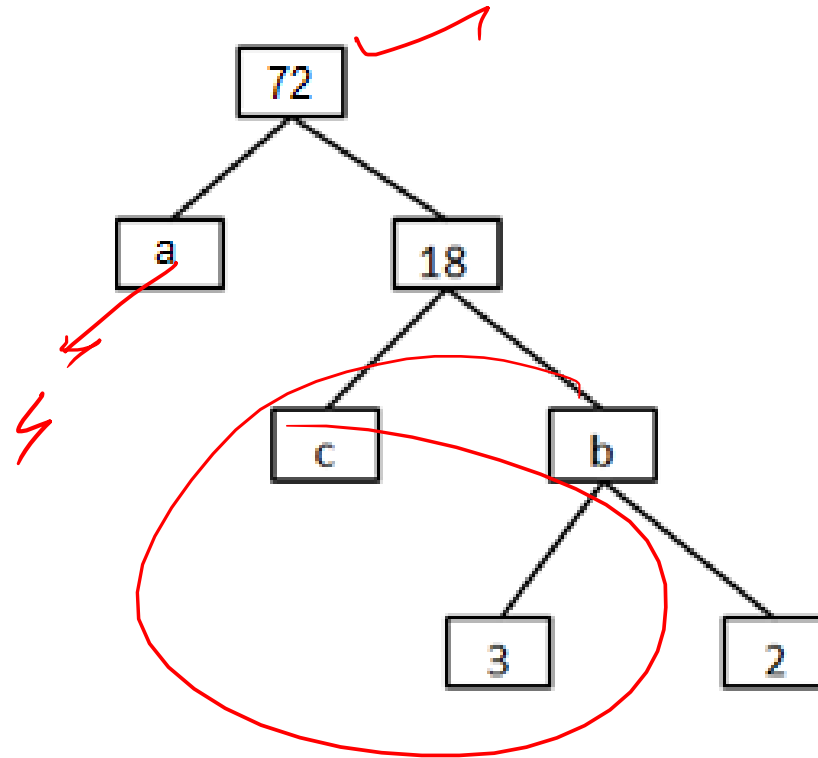
(d) all are terminating

Khusi Sharma

10) Find the value of 'a' in following factor tree.

$$a = \underline{4}$$

Hitansh
Sulabi



11) Name the acid which is also called the king of chemicals.

Sulphuric acid



congratulations

Hitansh



Paid Successfully



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