

Holiday Home Work

Que 1:- Simplify :- $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$

Que 2:- Prove, that :- $\frac{2^{30} + 2^{29} + 2^{30}}{2^{31} + 2^{30} - 2^{29}} = \frac{7}{10}$

Que 3:- If $x = 5 - 2\sqrt{6}$, then find the value of $\frac{x^2 + 1}{x^2}$

Que 4:- Simplify :- $\frac{4 + \sqrt{5}}{4 - \sqrt{5}} + \frac{4 - \sqrt{5}}{4 + \sqrt{5}}$

Que 5:- Write 3 irrational numbers between the $\sqrt{3}$ and $\sqrt{5}$.

Que 6:- Show that :- $\frac{x^{-1} + y^{-1}}{x^{-1}} + \frac{x^{-1} - y^{-1}}{y^{-1}} = \frac{x^2 + y^2}{xy}$

Que 7:- Write $\left(\frac{3x+1}{2}\right)^3$ in expanded form.

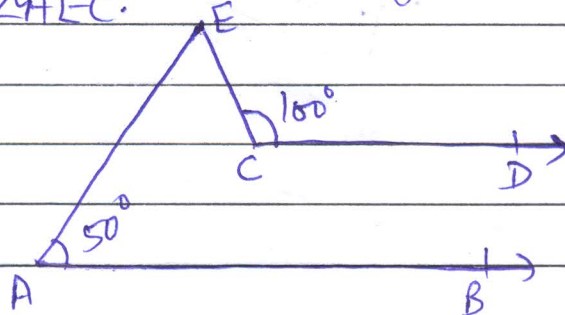
Que 8:- Evaluate :- 56×48 by using suitable identity.

Que 9:- Factorise :- $a^3 - b^3 - a + b$.

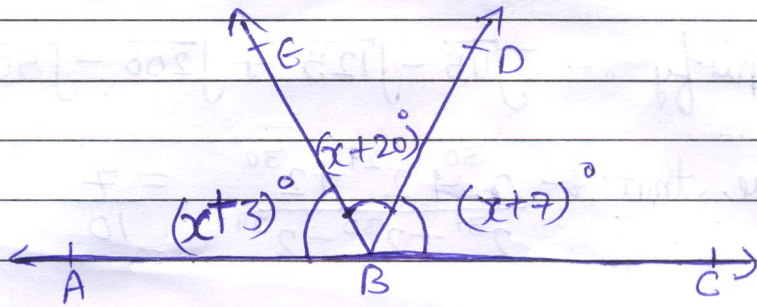
Que 10:- If $x + \frac{1}{x} = \sqrt{3}$, then find $x^3 + \frac{1}{x^3}$

Que 11:- In $\triangle ABC$, $\angle A + \angle B = 122^\circ$ and $\angle B + \angle C = 111^\circ$, find the measure of $\angle A$, $\angle B$ and $\angle C$.

Que 12:- In the given figure, $AB \parallel CD$ & if $\angle ECD = 100^\circ$ and $\angle BAE = 50^\circ$ find the value of $\angle AEC$.

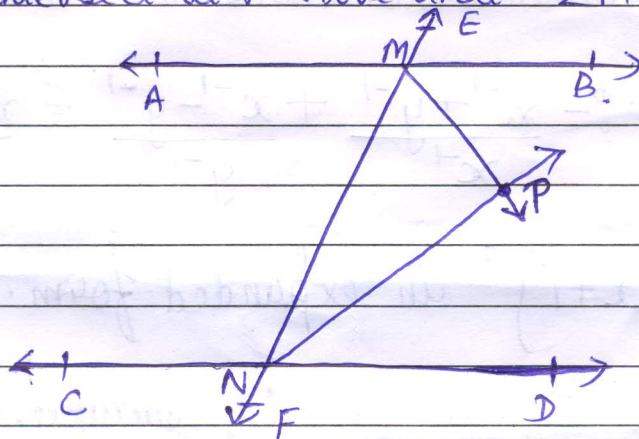


Que 13:- In the given figure, find x



Que 14:- If two complementary angles are in the ratio, $13:5$, find them.

Que 15:- In the given figure, $AB \parallel CD$ and bisector of $\angle BMN$ and $\angle DNM$ intersect at P . Prove that $\angle MPN = 90^\circ$.



• CREATIVE WORK \rightarrow Make a chart of fundamental concepts of 11-1 and 11-2

Note 1. ^{correction of} Date of Holiday homework upto 3rd July 2016

• PRACTICE WORK \rightarrow Revise 11-1, 2, 6 for C-Test.

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