- (c) $x^2 + 2bx (C^2 b^2) = 0$
- (d) $x^2 2cx + c^2 b^2 = 0$

Roots of equation $2x^2 + 3x + 7 = 0$ are α and β . The value of $\alpha\beta^-$ 16. $^{1} + Ba^{-1}$ is

- (a) **2**
- (b) 7/2
- (c) 3/7
- (d) -19/14

17. The present age of a man is 8 years more than thrice the sum of the ages of his two grandsons who are twins. After 8 years, his age will be 10 years more than twice the sum of the ages of his grandsons. The age of a man when his grandsons were born was:

- (a) 86 years
- (b) 68 years
- (c) 73 years
- (d) 63 years

from Notesale.co.uk Page 4 of 7 If $x = \sqrt{2} + \sqrt{2} + \sqrt{2 + upto \infty}$, then x is (x > 0)18.

(a) 2 (b) **4**

> (c) **0** 1 (d)

19.Th

(a) $1 + \sqrt{2}$

(b) 1 - √2 (c) 1

(d) 2

- 20. Equation $x^3 + 4x + 5 = 0$ has
 - (a) All real roots
 - (b) All imaginary roots
 - (c) One real & two imaginary roots
 - (d) Two real & one imaginary roots

21. A factory produces 200 bulbs for a total cost of Rs. 800 & 400 bulbs for Rs. 1200. The equation of the total cost line is