



Aptitude :: Numbers

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Exercise : Numbers - Formulas

☒ Numbers - Formulas

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1. Some Basic Formulae:

1. $(a + b)(a - b) = (a^2 - b^2)$

2. $(a + b)^2 = (a^2 + b^2 + 2ab)$

3. $(a - b)^2 = (a^2 + b^2 - 2ab)$

4. $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$

5. $(a^3 + b^3) = (a + b)(a^2 - ab + b^2)$

6. $(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$

7. $(a^3 + b^3 + c^3 - 3abc) = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ac)$

8. When $a + b + c = 0$, then $a^3 + b^3 + c^3 = 3abc$.



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