

CLASS VII SAMPLE PAPER MATHS (ALGEBRA)

- 1. Add the following expressions:
 - (a) $p^2 9pq q^2$ and $-4p^2 5pq + 2q^2$
 - (b) $2x^3 x^2y 2xy^2 y$ and $4x^3 x^2y + 3xy^2 + 4y$
 - (c) ab + bc + ca and -bc ca ab
 - (d) $p^2 3q + r$, $q r + 2p^2$ and $r 3p^2 + q$
 - (e) $2p^2qr + 3pq^2r + 4pqr^2$ and $-3pq^2r 2pqr^2 + p^2qr$
 - (f) ab bc, bc ca and ca ab
 - (g) $x^2 + 3xy yz$, $y^2 + 3yz zx$ and $z^2 + 3zx xy$
- 2. Subtract
 - (a) $-8p^2qr from 4p^2qr$.
 - (b) $-2a^2 3ab$ from $2b^2 + 4ab$.
 - (c) $-4x^2y 5y^3$ from $3x^3 + 3xy^2 2x^2y$.
 - (d) $4x^3 + 3x^3y^3 + 5y^3$ from $2x^3 2x^3y^3 + 7y^3$.
 - (e) ab bc ca from ab + bc + ca.
 - (f) $-2a^2 2b^2$ from $-2a^2 b^2 + 2ab$.
 - (g) $3x^3y^2 + 3x^2y^2 7xy^3$ from $2x^3 + y^3 + 3x^2y^2 xy^3$.
 - (h) 2 (ab + bc + ca) from -ab 5bc ca.
- 3. Solve
 - (a) What should be added to $x^3 + 3x^2y + 3xy^2 + y^3$ to get $2x^3 + 3y^3$?
 - (b) What should be added to $pq + 5p^2q^2 + p^3$ to get $2p^3 + p^2q^2 + 4pq$?
 - (c) What should be subtracted from $3x^3 3x^2y + 4xy^2 + 7y^3$ to get $x^3 5x^2y + xy^2 + 4y^3$?



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- (d) What should be subtracted from $-7mn + 2m^2 + 3n^2$ to get $m^2 + 2mn + n^2$?
- (e) How much is $21a^3 17a^2$ less than $89a^3 64a^2 + 6a + 16$?
- (g) How much does $3p^2 5p + 4$ exceed $13p^3 5p^2 + 7p 9$?
- (h) To what expression must $9x^3 3x^2 x 4$ be added to make the sum zero?
- (i) From the sum of $x^2 y^2 1$, $y^2 x^2 1$ and $1 x^2 y^2$ subtract $(1 + y^2)$.
- (j) Subtract the sum of $2ab 7b^2 8a^2$ and $9ab + 5b^2 + 7a^2$ from the sum of $12ab + 8b^2$ and $6b^2 a^2$.

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