

CIKGU HARNISH



# Pusat Tuisyen Skor Impian



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Bab 2: Pemfaktoran & Pecahan Algebra

Chapter 2: Factorisation & Algebraic  
Fractions

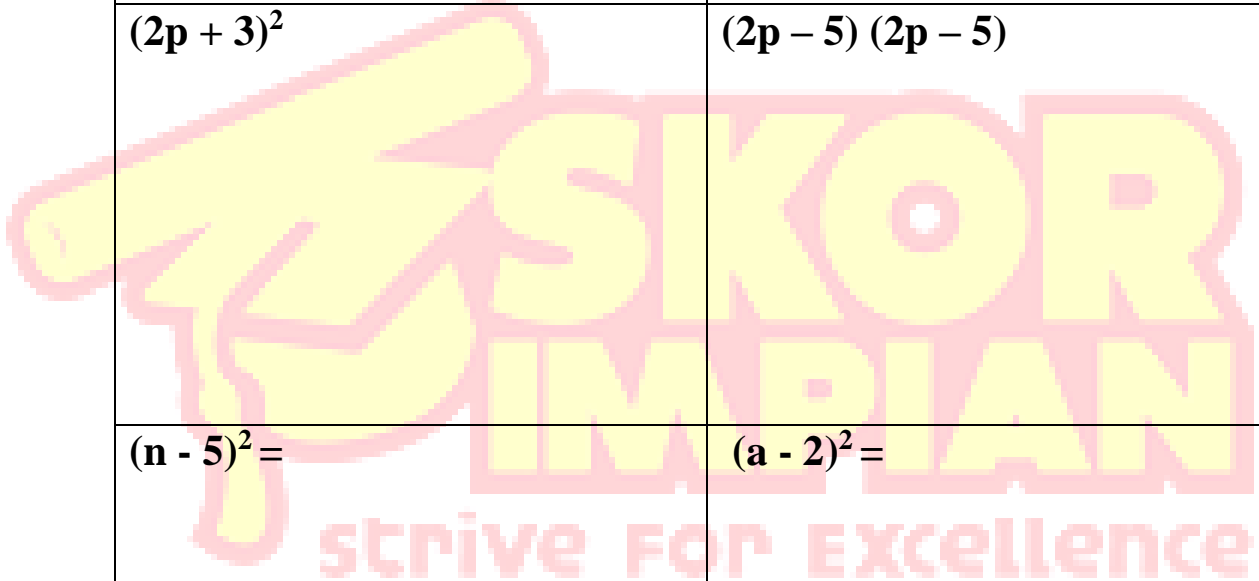
## 2.1 Kembangan / Expansion

1- Kembangkan  
Expand

|                          |                        |
|--------------------------|------------------------|
| $m(n + 7) =$             | $5m(2m - 7) =$         |
| $\frac{1}{9}(3n - 18) =$ | $-\frac{1}{4}(2p - 8)$ |
| $p(q-p) =$               | $-2y(y - 8) =$         |

2- Kembangkan  
Expand

|                |                    |
|----------------|--------------------|
| $(m-7)(m-6) =$ | $(2m + n)(6 - 3m)$ |
| $(2p + 3)^2$   | $(2p - 5)(2p - 5)$ |
| $(n - 5)^2 =$  | $(a - 2)^2 =$      |



3- Permudahkan  
Simplify

|                     |                               |
|---------------------|-------------------------------|
| $3(m-7) + 2(m-6) =$ | $- 4(2m + n) (6 - 3m)$        |
| $(2p + 3)^2 - 5p$   | $(2p - 5) (2p - 5) + 5 - p^2$ |
| $-2(n - 8)^2 =$     | $(4a-2)(a+3) - (a - 2)^2 =$   |

## 2.2 Pemfaktoran / Factorisation

1. Faktorkan ungkapan berikut  
Factorise the following

|                  |                 |
|------------------|-----------------|
| $(2m - 12) =$    | $(18 - 3m)$     |
| $4pq + 24p^3q -$ | $p^3 - 8p =$    |
| $20m^2 - 8mn =$  | $10x - 15x^2 =$ |

2. Faktorkan ungkapan berikut  
Factorise the following

|                       |                     |
|-----------------------|---------------------|
| $p^2q^2 - 81 =$       | $a^2 + 4a + 4 =$    |
| $9q^2 - 24q^2 + 16 =$ | $b^2 - 9c^2 =$      |
| $3e^2 - e - 14 =$     | $x^2 + 8x^2 + 15 =$ |

## 2.3 Ungkapan Algebra/ Algebraic Expression

1- Permudahkan dengan menggunakan kembangan atau pemfaktoran.

Simplify using expansion or using factorization.

|  |                                       |
|--|---------------------------------------|
| $\frac{m}{5} + \frac{m}{3}$            | $\frac{3r}{7} - \frac{r}{3}$          |
| $\frac{4}{hm^2} - \frac{1}{hm}$        | $\frac{1}{m-1} \times \frac{mn}{5}$   |
| $\frac{3}{y+1} \times \frac{y^2-1}{6}$ | $\frac{a-b}{4} \div \frac{a^2b^2}{8}$ |