

แบบฝึกหัดเรื่อง สมการพหุนามดีกรีสูง

จงเขียนเซตคำตอบของสมการในแต่ละข้อต่อไปนี้

1. $6x^2 + 2x = 0$

Sol. $2x (\quad) = 0$

Therefore $2x = 0$ or $\quad = 0$

Ans. $x = \quad ,$

2. $x^2 - 4 = 0$

Sol. $(\quad)(\quad) = 0$

Therefore $\quad = 0$ or $\quad = 0$

Ans. $x = \quad ,$

3. $x^2 - 2x - 3 = 0$

Sol. $(\quad)(\quad) = 0$

Therefore $\quad = 0$ or $\quad = 0$

Ans. $x = \quad ,$

4. $2x^3 - 7x^2 + 6x = 0$

Sol. $x (\quad x^2 - \quad x + \quad) = 0$

$x (\quad)(\quad) = 0$

Therefore $x = 0$ or $\quad = 0$

or $\quad = 0$

Ans. $x = \quad , \quad ,$

5. $x^3 + x^2 - 9x - 9 = 0$

Sol. $(x^3 + x^2) - (\quad x + \quad) = 0$

$x^2(x + \quad) - (\quad x + \quad) = 0$

$(x + \quad)(x^2 - \quad) = 0$

$(x + \quad)(x + \quad)(x - \quad) = 0$

Therefore $\quad = 0$ or $\quad = 0$

or $\quad = 0$

Ans. $x = \quad , \quad ,$

6. $3x^3 - 2x^2 - 12x + 8 = 0$

Sol. $(\quad - \quad) - (\quad - \quad) = 0$

$(\quad) - (\quad) = 0$

$(\quad)(\quad) = 0$

$(\quad)(\quad)(\quad) = 0$

Therefore $\quad = 0$ or $\quad = 0$

or $\quad = 0$

Ans. $x = \quad , \quad ,$