แบบฝึกหัดเรื่อง สมการพหุนามดีกรีสูง

จงเขียนเซตคำตอบของสมการในแต่ละข้อต่อไปนี้

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

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

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

Ans. $x =$,

2. $x^2 - 4 = 0$

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

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

Ans. $x =$,

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

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

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

Ans. x = ,

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

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

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

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

or $\quad\quad = 0$

Ans. x = , ,

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

or $\quad\quad = 0$

Ans. x = , ,

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

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

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

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

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

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

or $\quad\quad = 0$

Ans. x = , ,

LIVEWORKSHEETS