

## แบบฝึกทักษะที่ 1.1

### จงแยกตัวประกอบของพหุนามดีกรีสองต่อไปนี้

1.  $x^2 - 3x - 10$  = .....
2.  $x^2 + x - 20$  = .....
3.  $x^2 + x - 56$  = .....
4.  $x^2 - 4x - 21$  = .....
5.  $x^2 + 3x - 40$  = .....
6.  $x^2 + 9x - 36$  = .....
7.  $x^2 - 5x - 24$  = .....
8.  $x^2 - 4x - 45$  = .....
9.  $x^2 + x - 110$  = .....
10.  $x^2 - 2x - 24$  = .....
11.  $a^2 + 9ab + 14b^2$  = .....
12.  $a^2 + 10ab + 9b^2$  = .....
13.  $x^2 + 10xy + 25y^2$  = .....
14.  $x^2 - 14xy + 49y^2$  = .....
15.  $x^2 - 4xy - 21y^2$  = .....
16.  $x^2 + 4xy - 5y^2$  = .....
17.  $x^2 + xy - 156y^2$  = .....
18.  $x^2 - 4xy - 77y^2$  = .....
19.  $x^2 + 6xy - 91y^2$  = .....
20.  $x^2 - 11xy - 26y^2$  = .....

21.  $2 + x - x^2$  = .....

22.  $14 - 5x - x^2$  = .....

23.  $98 - 7x - x^2$  = .....

24.  $x^2 + 2x + 1$  = .....

25.  $x^2 - 2x + 1$  = .....

26.  $x^2 + 8x + 16$  = .....

27.  $x^2 + 12x + 36$  = .....

28.  $x^2 - 24x + 144$  = .....

29.  $x^2 + 6xy + 9y^2$  = .....

30.  $x^2 - 7x + 10$  = .....

31.  $x^2 - 7x + 12$  = .....

32.  $x^2 - x - 12$  = .....

33.  $x^2 + x - 20$  = .....

34.  $x^2 + 4x + 4$  = .....

35.  $x^2 - 6x + 9$  = .....

36.  $x^2 + 8x + 16$  = .....

37.  $x^2 - 10x + 24$  = .....

38.  $x^2 - 14x + 24$  = .....

39.  $x^2 - 11x + 24$  = .....

40.  $x^2 - 17x + 70$  = .....

## แบบฝึกทักษะที่ 1.2

### จงแยกตัวประกอบของพหุนามดีกรีสองต่อไปนี้

1.  $2x^2 + 5x + 2$  = .....
2.  $2x^2 - 5x + 2$  = .....
3.  $3x^2 + 8x + 5$  = .....
4.  $6x^2 + 7x + 2$  = .....
5.  $20x^2 - 3x - 2$  = .....
6.  $5x^2 + 17x - 12$  = .....
7.  $6x^2 - 5x + 1$  = .....
8.  $4x^2 + 11x + 6$  = .....
9.  $6x^2 + 4x - 2$  = .....
10.  $3x^2 + 13x - 30$  = .....
11.  $4x^2 + x - 14$  = .....
12.  $6x^2 + 7x - 3$  = .....
13.  $24x^2 + 22x - 21$  = .....
14.  $6x^2 + x - 1$  = .....
15.  $3x^2 + 4x - 4$  = .....
16.  $3x^2 - 2x - 1$  = .....
17.  $2x^2 - 13x + 15$  = .....
18.  $5x^2 - 7x + 2$  = .....
19.  $3x^2 - 10x + 3$  = .....
20.  $8 + x - 7x^2$  = .....

### แบบฝึกทักษะที่ 1.3

จงแยกตัวประกอบของพหุนามดีกรีสองที่เป็นกำลังสองสมบูรณ์ต่อไปนี้

- |                           |   |       |   |       |
|---------------------------|---|-------|---|-------|
| 1. $4x^2 + 4x + 1$        | = | ..... | = | ..... |
| 2. $4x^2 - 4x + 1$        | = | ..... | = | ..... |
| 3. $9x^2 - 6x + 1$        | = | ..... | = | ..... |
| 4. $16x^2 + 8x + 1$       | = | ..... | = | ..... |
| 5. $4x^2 + 12x + 9$       | = | ..... | = | ..... |
| 6. $9x^2 - 12x + 4$       | = | ..... | = | ..... |
| 7. $25x^2 - 40x + 16$     | = | ..... | = | ..... |
| 8. $16x^2 - 8x + 1$       | = | ..... | = | ..... |
| 9. $25x^2 + 20x + 4$      | = | ..... | = | ..... |
| 10. $9x^2 + 12x + 4$      | = | ..... | = | ..... |
| 11. $x^2 - 2xy + y^2$     | = | ..... | = | ..... |
| 12. $x^2 + 2x + 1$        | = | ..... | = | ..... |
| 13. $4x^2 + 12xy + 9y^2$  | = | ..... | = | ..... |
| 14. $16x^2 - 24x + 9$     | = | ..... | = | ..... |
| 15. $4x^2 + 20x + 25$     | = | ..... | = | ..... |
| 16. $9x^2 - 72x + 144$    | = | ..... | = | ..... |
| 17. $25x^2 + 90x + 81$    | = | ..... | = | ..... |
| 18. $9x^2 + 6xy + y^2$    | = | ..... | = | ..... |
| 19. $4x^2 - 28xy + 49y^2$ | = | ..... | = | ..... |
| 20. $x^2 + 8x + 16$       | = | ..... | = | ..... |

## แบบฝึกทักษะที่ 1.4

จงเขียนให้อยู่ในรูปผลต่างของกำลังสองแล้วแยกตัวประกอบของพหุนามต่อไปนี้

- |                                |   |       |   |       |
|--------------------------------|---|-------|---|-------|
| 1. $9x^2 - 25$                 | = | ..... | = | ..... |
| 2. $16x^2 - 169$               | = | ..... | = | ..... |
| 3. $m^2n^2 - 144$              | = | ..... | = | ..... |
| 4. $9a^2b^2 - c^2$             | = | ..... | = | ..... |
| 5. $49x^2y^2 - 25z^2$          | = | ..... | = | ..... |
| 6. $x^4 - 81$                  | = | ..... | = | ..... |
| 7. $25x^4 - 121$               | = | ..... | = | ..... |
| 8. $225 - a^4b^4$              | = | ..... | = | ..... |
| 9. $25x^2 - 144$               | = | ..... | = | ..... |
| 11. $16 - 9x^2$                | = | ..... | = | ..... |
| 12. $(x + 2)^2 - 16$           | = | ..... | = | ..... |
| 13. $(2x + 1)^2 - (x - 2)^2$   | = | ..... | = | ..... |
| 14. $(x + 1)^2 - (y - 2)^2$    | = | ..... | = | ..... |
| 15. $4x^2 - (x + 2)^2$         | = | ..... | = | ..... |
| 16. $(x - 5)^2 - 49$           | = | ..... | = | ..... |
| 17. $9x^2 - (x - 2)^2$         | = | ..... | = | ..... |
| 18. $(x + y)^2 - (2x - 3y)^2$  | = | ..... | = | ..... |
| 19. $4(2x - y)^2 - (x + 2y)^2$ | = | ..... | = | ..... |
| 20. $x^2 - 1$                  | = | ..... | = | ..... |

















































