

## Factoring Trinomials

What is the factored form of the following expressions?

1.  $d^2 + 16d + 63$

2.  $d^2 - 19d + 90$

3.  $d^2 + 2d - 48$

4.  $d^2 + 14d + 45$

5.  $d^2 + 12d + 35$

6.  $d^2 - 15d + 54$

7.  $d^2 - 10d + 25$

8.  $d^2 + 3d - 54$

9.  $d^2 + 6d - 40$

What is the factored form of the expression?

10.  $8x^2 + 18x + 9$

11.  $4x^2 + 12x + 9$

12.  $9x^2 + 24x + 16$

13.  $8x^2 + 18x + 9$

14.  $16x^2 + 24x + 9$

15.  $9x^2 + 12x + 4$

16.  $12x^2 + 17x + 6$

17.  $12x^2 + 25x + 12$

What is the factored form of the expression?

18.  $3x^2 + 8x - 16$

19.  $6g^2 + 5g - 6$

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20.  $2x^2 + 3x - 9$

21.  $6x^2 + x - 12$

22.  $3x^2 + 4x - 4$

**What is the factored form of the expression?**

23.  $80y^2 - 210y - 245$

24.  $140y^2 - 104y - 192$

25.  $18y^2 - 12y - 70$

**Factoring Trinomials  
Answer Section**

1.  $(d + 7)(d + 9)$
2.  $(d - 10)(d - 9)$
3.  $(d - 6)(d + 8)$
4.  $(d + 5)(d + 9)$
5.  $(d + 5)(d + 7)$
6.  $(d - 9)(d - 6)$
7.  $(d - 5)(d - 5)$
8.  $(d + 9)(d - 6)$
9.  $(d + 10)(d - 4)$
10.  $(2x + 3)(4x + 3)$
11.  $(2x + 3)(2x + 3)$
12.  $(3x + 4)(3x + 4)$
13.  $(4x + 3)(2x + 3)$
14.  $(4x + 3)(4x + 3)$
15.  $(3x + 2)(3x + 2)$
16.  $(4x + 3)(3x + 2)$
17.  $(3x + 4)(4x + 3)$
18.  $(3x - 4)(x + 4)$
19.  $(3g - 2)(2g + 3)$
20.  $(2x - 3)(x + 3)$
21.  $(3x - 4)(2x + 3)$
22.  $(3x - 2)(x + 2)$
23.  $5(2y - 7)(8y + 7)$
24.  $4(5y - 8)(7y + 6)$
25.  $2(3y - 7)(3y + 5)$