

Factoring: Three Terms  
Jefferson Davis Learning Center, Sandra Peterson

Factor completely.

1.  $x^2 + 7x + 10$

2.  $x^2 + 8x + 12$

3.  $x^2 - 9x + 14$

4.  $x^2 - 5x + 4$

5.  $x^2 + x - 30$

6.  $x^2 + 5x - 24$

7.  $x^2 - 3x - 18$

8.  $x^2 - 6x - 16$

9.  $2x^2 + 7x + 3$

10.  $6x^2 + 7x + 2$

11.  $3x^2 - 16x + 5$

12.  $8x^2 - 18x + 9$

13.  $6x^2 + x - 5$

14.  $6x^2 - 5x - 6$

15.  $16x^2 - 2x - 5$

16.  $14x^2 + 13x - 12$

17.  $4x^2 + 4x + 1$

18.  $9x^2 - 12xy + 4y^2$

Answers

1.  $(x+5)(x+2)$

2.  $(x+6)(x+2)$

3.  $(x-7)(x-2)$

4.  $(x-4)(x-1)$

5.  $(x+6)(x-5)$

6.  $(x+8)(x-3)$

7.  $(x-6)(x+3)$

8.  $(x-8)(x+2)$

9.  $(2x+1)(x+3)$

10.  $(3x+2)(2x+1)$

11.  $(3x-1)(x-5)$

12.  $(4x-3)(2x-3)$

13.  $(6x-5)(x+1)$

14.  $(2x-3)(3x+2)$

15.  $(8x-5)(2x+1)$

16.  $(7x-4)(2x+3)$

17.  $(2x+1)^2$

18.  $(3x-2y)^2$

Please visit the Learning Lab for further assistance.