

# Algebra 2 Worksheet

## Factoring Quadratic Expressions

### Answers

1.  $x^2 + 2x - 8$

$(x + 4)(x - 2)$

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

$(x - 7)(x + 2)$

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

$(x - 9)(x + 2)$

4.  $5x^2 - 40x$

$5x(x - 8)$

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

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

6.  $3x^3 - 2x^2 - 5x$

$x(3x - 5)(x + 1)$

7.  $x^2 - 8x - 20$

$(x - 10)(x + 2)$

8.  $2x^4 - 6x^3 - x^2 + 3x$

$x(2x^3 - 1)(x - 3)$

9.  $x^2 + 7x + 12$

$(x + 4)(x + 3)$

10.  $x^2 - 10x + 25$

$(x - 5)^2$