

Name :

Factoring Quadratic Expressions

Factor each completely

1 $x^2 - 16x + 63$

2 $10x^2 + 100x + 250$

3 $10x^2 + 89x - 9$

4 $4x^2 + 17x - 15$

5 $x^2 + 10x + 24$

6 $7x^2 - 45x - 28$

7 $40x^2 + 280x + 490$

8 $25x^2 + 20x + 4$

9 $10x^2 + 89x - 9$

10 $16x^2 - 40x + 25$

Name :

Factoring Quadratic Expressions

Answers

1 $x^2 - 16x + 63$

$(x - 9)(x - 7)$

2 $10x^2 + 100x + 250$

$10(x + 5)^2$

3 $10x^2 + 89x - 9$

$(x + 9)(10x - 1)$

4 $4x^2 + 17x - 15$

$(4x - 3)(x + 5)$

5 $x^2 + 10x + 24$

$(x + 4)(x + 6)$

6 $7x^2 - 45x - 28$

$(7x + 4)(x - 7)$

7 $40x^2 + 280x + 490$

$10(2x + 7)^2$

8 $25x^2 + 20x + 4$

$(5x + 2)^2$

9 $10x^2 + 89x - 9$

$(x + 9)(10x - 1)$

10 $16x^2 - 40x + 25$

$(4x - 5)^2$