

Name : _____

Score : _____ Date : _____

Factoring Perfect Square Trinomials

Factor each expression completely

1 $x^2 + 6x + 9$

2 $x^2 - 22x + 121$

3 $x^2 - 2x + 1$

4 $x^2 + 20x + 100$

5 $x^2 + 24x + 144$

6 $36x^2 - 60x + 25$

7 $4x^2 - 36x + 81$

8 $x^2 - 24x + 144$

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Factoring Perfect Square Trinomials

Answers

1 $x^2 + 6x + 9$

$(x + 3)^2$

2 $x^2 - 22x + 121$

$(x - 11)^2$

3 $x^2 - 2x + 1$

$(x - 1)^2$

4 $x^2 + 20x + 100$

$(x + 10)^2$

5 $x^2 + 24x + 144$

$(x + 12)^2$

6 $36x^2 - 60x + 25$

$(6x - 5)^2$

7 $4x^2 - 36x + 81$

$(2x - 9)^2$

8 $x^2 - 24x + 144$

$(x - 12)^2$
