Perfect square polynomials factoring

Factor the following perfect square polynomials

1) $n^2 - 24n + 144$

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2) $p^2 - 30p + 225$

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3) $x^2 + 40x + 400$

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4) $18y^3 + 60y^2 + 50y$

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5) $25a^2 + 10a + 1$

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6) $m^2n^4 + 20mn^2 + 100$

Factor the following perfect square polynomials

1) $n^2 - 24n + 144$ $\qquad$ $(n - 12)^2$

2) $p^2 - 30p + 225$ $\qquad$ $(p - 15)^2$

3) $x^2 + 40x + 400$ $\qquad$ $(x + 20)^2$

4) $18y^3 + 60y^2 + 50y$ $\qquad$ $2y(3y + 5)^2$

5) $25a^2 + 10a + 1$ $\qquad$ $(5a + 1)^2$

6) $m^2n^4 + 20mn^2 + 100$ $\qquad$ $(mn^2 + 10)^2$