Solving Review (Square Roots and Factoring) WS

Solve each equation by taking square roots. Give your answers as integers or as reduced fractions (no decimals).

1) $a^2 = 1$

2) $p^2 = 9$

3) $4p^2 = 1$

4) $25p^2 = 1$

5) $(p - 4)^2 = 81$

6) $(x + 7)^2 = 100$

7) $(m - 3)^2 + 7 = 11$

8) $(r - 10)^2 + 5 = 54$

Solve each equation by factoring. Give your answers as integers or as reduced fracions (no decimals).

9) $n^2 = 16 + 6n$

10) $x^2 - 32 = -4x$

11) $n^2 + 7n = -10$

12) $x^2 - 10x = -16$

13) $21n^2 = 25n + 56$

14) $14n^2 = 3 + 19n$