WS – Solving Quadratic Equations by Square Roots & Factoring

Solve the following by square roots. (Clue: Isolate the squares first)

1) $3x^2 - 27 = 0$

2) $x^2 - 126 = 130$

3) $(x - 6)^2 = 25$

4) $(2x + 1)^2 = 36$

Solve the following by factoring.

5) $x^2 - 12x + 35 = 0$

6) $9x^2 - 16$

7) $x^2 = 4x + 32$

8) $8x^2 - 2x = 0$

9) $x^2 - 14x = 32$

10) $x^2 - 14x + 49 = 0$