Answers must be clearly **legible**, **simplified** and **boxed** or **circled**.   Write answer as an **exact** integer or fraction or use **two** decimal accuracy.

Solve for x:

1) $x^2 - 72 = 72$

2) $7x^2 = 175$

3) $3x^2 + 16 = 163$

4) $\dfrac{x^2 + 92}{5} = 38$

5) $3.2x^2 + 9.2 = 18.7$

6) $\sqrt{2x + 25} = 12$

7)   **Solve for a**: $a^2 + b^2 = c^2$

8)   **Solve for R**: $A = \pi R^2$

9)   **Solve for r**: $V = (\tfrac{1}{3})\,\pi\, r^2\, h$

10) **Solve for y**: $k = \sqrt{y - y_0}$