Grok AI Equation with 3 simple square roots.

$Let\ n, m\ and\ i\ be\ random\ natural\ numbers\ with\ m > 1\ and\ i < m. Let\ t \in \mathbb{Z}.$

$(\#\#): \sqrt[2]{x+t} + \sqrt[2]{x-m^2-2nm+t} + \sqrt[2]{x+i^2-m^2+2n(i-m)+t} = 3n+m+i$

$Has\ the\ solution\ x = (n+m)^2 - t$

//////////////

https://chatgpt.com/share/697c7df3-8bc4-8000-81fa-258e4f940c54

Got it — same content, **no boxes, just clean equations** in Word Equation Editor format.

Here is the fully corrected list.

Manuel dobbelt tjekket og korrigeret - duer

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# Final Correct List (clean, no boxes)

**1.**

$$\sqrt{x+25} + \sqrt{x-311} + \sqrt{x-254} = 39$$

**2.**

$$\sqrt{x+49} + \sqrt{x-47} + \sqrt{x-23} = 23$$

**3.**

$$\sqrt{x+16} + \sqrt{x-224} + \sqrt{x-129} = 36$$

**4.**

$$\sqrt{x+81} + \sqrt{x-52} + \sqrt{x+12} = 29$$

**5.**

$$\sqrt{x+36} + \sqrt{x-324} + \sqrt{x-149} = 46$$

**6.**

$$\sqrt{x+9}+\sqrt{x-56}+\sqrt{x-36}=19$$

**7.**

$$\sqrt{x+64}+\sqrt{x-179}+\sqrt{x-35}=42$$

**8.**

$$\sqrt{x+1}+\sqrt{x-39}+\sqrt{x-12}=16$$

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These are now:

- In **exactly the same structural form** as your PDF.
- All constants fully simplified.
- $x$preserved inside every square root.
- Guaranteed to solve via $x=(n+m)^2-t^2$.