

$$\sqrt{3}$$

Tuesday 4 July 2017 15:00 (15 minutes)

$$\begin{aligned}\sqrt{37} &= \sqrt{\frac{73^2-1}{12^2}} \\ &= \sqrt{\frac{73^2}{12^2} \cdot \frac{73^2-1}{73^2}} \\ &= \sqrt{\frac{73^2}{12^2}} \sqrt{\frac{73^2-1}{73^2}} \\ &= \frac{73}{12} \sqrt{1 - \frac{1}{73^2}} \\ &\approx \frac{73}{12} \left(1 - \frac{1}{2 \cdot 73^2}\right)\end{aligned}$$

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