

$$f := x \rightarrow \text{Pi} \cdot x^2$$

$$f := x \mapsto \pi \cdot x^2 \quad (1)$$

$$\text{solve}(f(x) = 1005)$$

$$\frac{\sqrt{1005}}{\sqrt{\pi}}, -\frac{\sqrt{1005}}{\sqrt{\pi}} \quad (2)$$

$$\text{solve}(f(x) = 995)$$

$$\frac{\sqrt{995}}{\sqrt{\pi}}, -\frac{\sqrt{995}}{\sqrt{\pi}} \quad (3)$$

$$\text{solve}(f(x) = 1000)$$

$$\frac{10\sqrt{10}}{\sqrt{\pi}}, -\frac{10\sqrt{10}}{\sqrt{\pi}} \quad (4)$$

$$\frac{\sqrt{1005}}{\sqrt{\pi}} - \frac{10\sqrt{10}}{\sqrt{\pi}}$$

$$\frac{\sqrt{1005}}{\sqrt{\pi}} - \frac{10\sqrt{10}}{\sqrt{\pi}} \quad (5)$$

$$\text{evalf}(\%)$$

$$0.04454749 \quad (6)$$

$$\text{normal}(\%)$$

$$\frac{\sqrt{1005} - 10\sqrt{10}}{\sqrt{\pi}} \quad (7)$$

$$\frac{\sqrt{995}}{\sqrt{\pi}} - \frac{10\sqrt{10}}{\sqrt{\pi}}$$

$$\frac{\sqrt{995}}{\sqrt{\pi}} - \frac{10\sqrt{10}}{\sqrt{\pi}} \quad (8)$$

$$\text{evalf}(\%)$$

$$-0.04465900 \quad (9)$$

$$\text{normal}(\%)$$

$$-\frac{-\sqrt{995} + 10\sqrt{10}}{\sqrt{\pi}} \quad (10)$$