

2AD6

$$\begin{array}{ccc} a_1 & a_2 & a_3 \\ 4 & x-2 & 16 \end{array}$$

сiа6 ГЕОМЕТРИИ

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TEST STATY

$$\frac{a_2}{a_1} = \frac{a_3}{a_2} \quad \frac{x-2}{4} = \frac{16}{x-2}$$

$$(x-2)^2 = 4 \cdot 16$$

$$x^2 - 4x + 4 - 64 = 0$$

$$x^2 - 4x - 60 = 0$$

$$\Delta = 16 + 4 \cdot 60$$

$$\Delta = 16 + 240$$

$$\Delta = 256$$

$$\sqrt{\Delta} = 16$$

$$x_1 = \frac{4-16}{2} = \frac{-12}{2} = -6$$

$$x_2 = \frac{4+16}{2} = \frac{20}{2} = 10$$

1° $x_1 = -6$

$$\begin{array}{ccc} 4 & -8 & 16 \\ | & | & \\ 4 & 8 & 16 \end{array}$$

2° $x_2 = 10$

$$\begin{array}{ccc} 4 & 8 & 16 \\ | & | & \\ 4 & 8 & 16 \end{array}$$

2AD7

$$\frac{\sin 15^\circ}{\cos 75^\circ} \cdot \operatorname{ctg} 75^\circ = \frac{\operatorname{ctg} 75^\circ}{\frac{\cos 75^\circ}{\sin 75^\circ}}$$
$$= \frac{\sin 15^\circ}{\cancel{\cos 75^\circ}} \cdot \frac{\cancel{\cos 75^\circ}}{\sin 75^\circ} = \frac{\sin 15^\circ}{\cos 15^\circ} = \underline{\underline{\operatorname{tg} 15^\circ}}$$

$$\operatorname{ctg} 75^\circ = \cos(90^\circ - 75^\circ) = \cos 15^\circ$$