둔각삼각형의 넓이
(The Area of Obtuse Triangle)

The Area of Obtuse Triangle

Start

The Area of Obtuse Triangle

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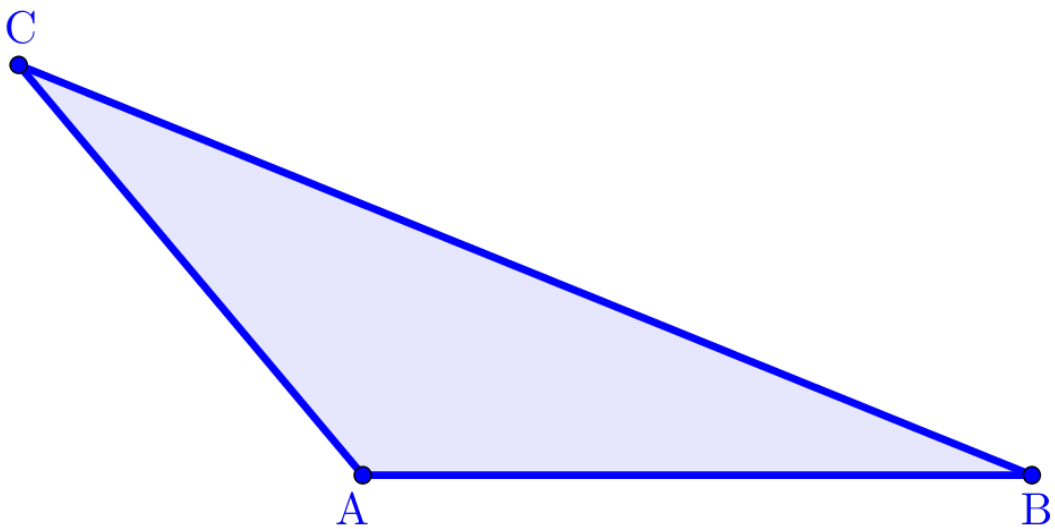

The Area of Obtuse Triangle

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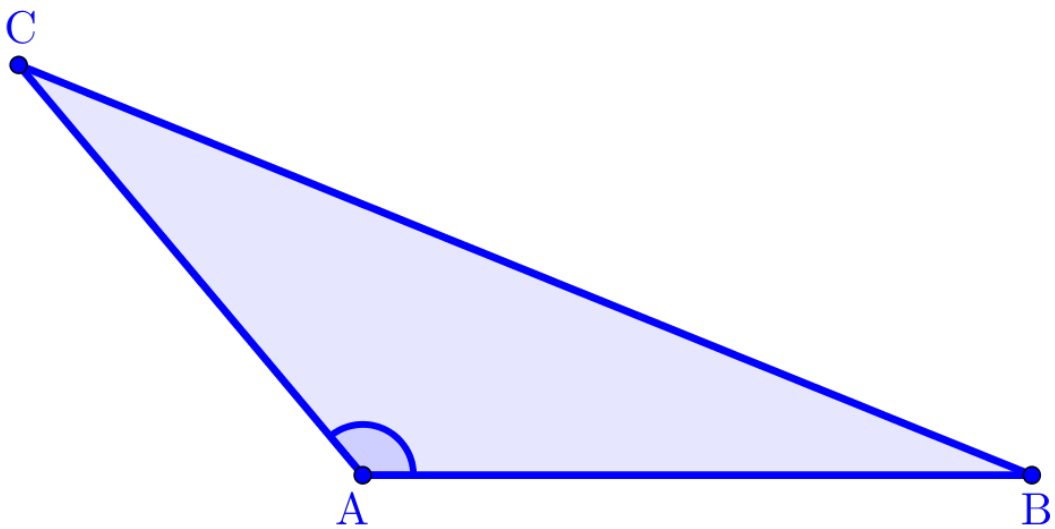

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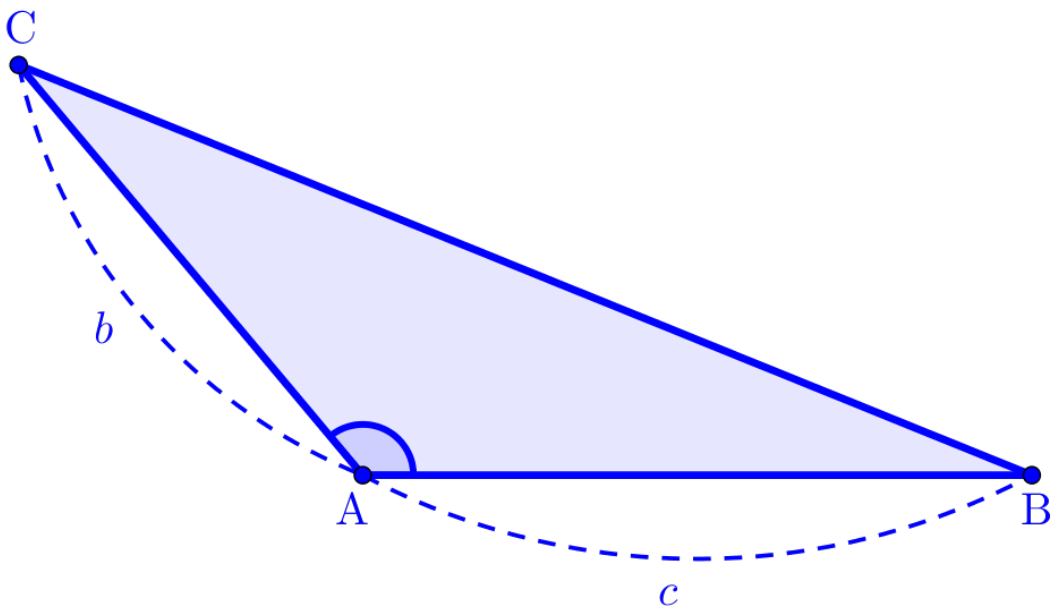

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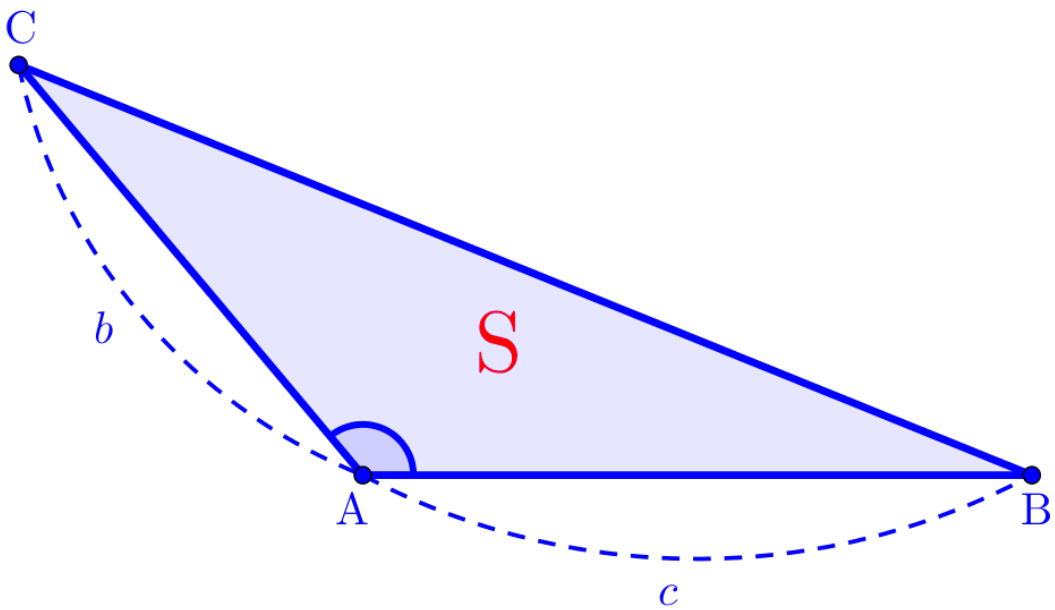

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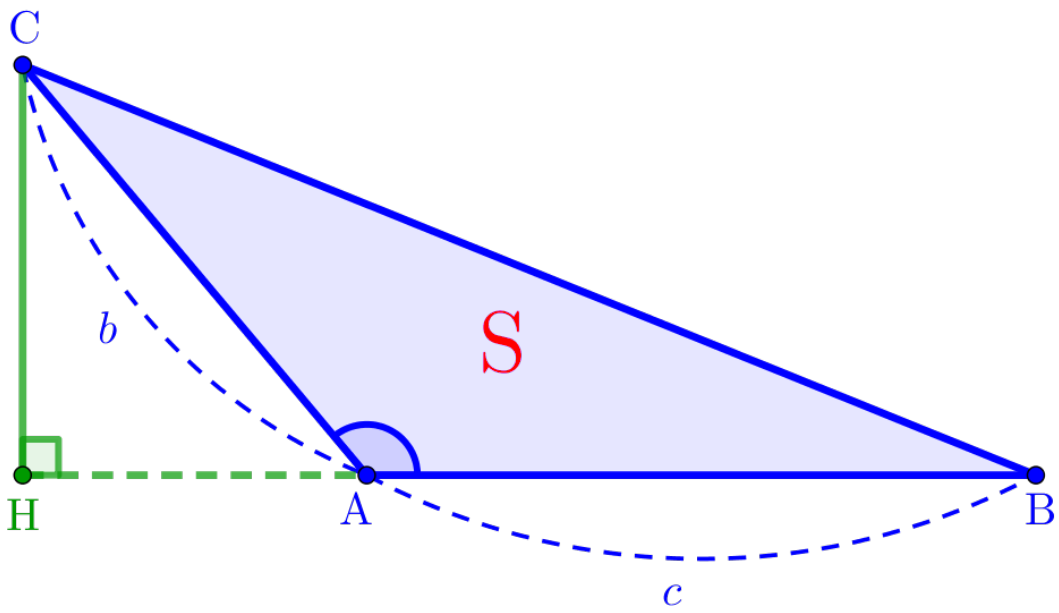

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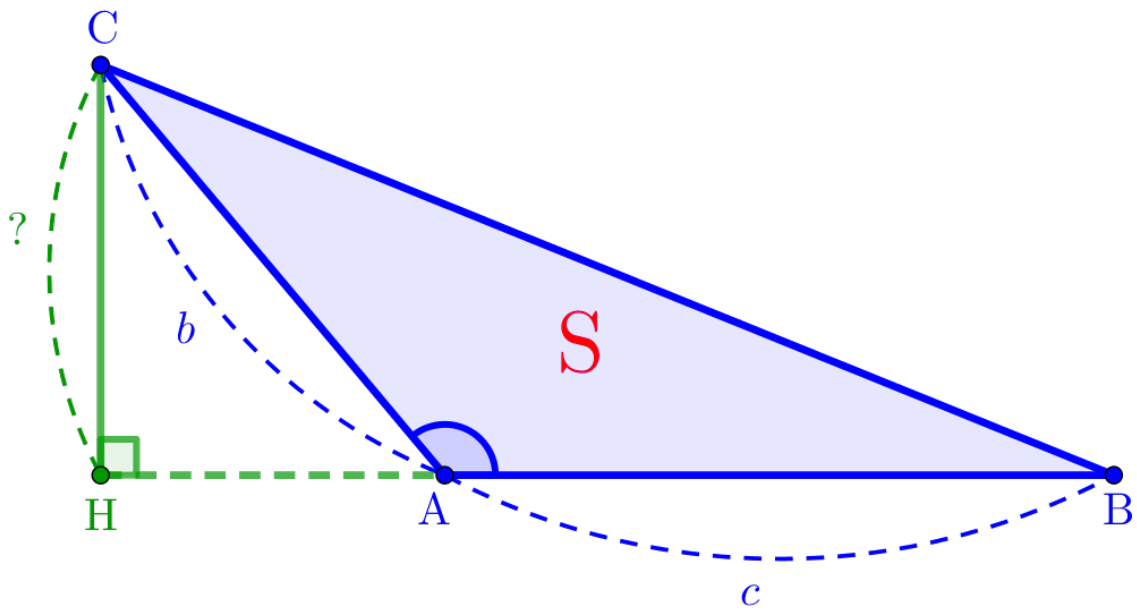

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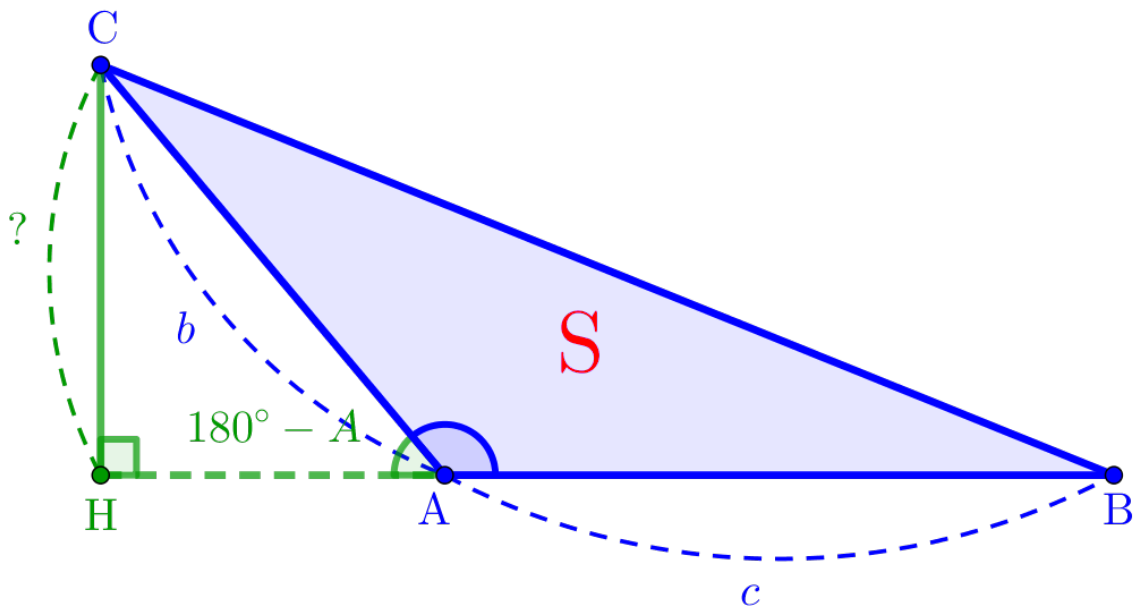

The Area of Obtuse Triangle

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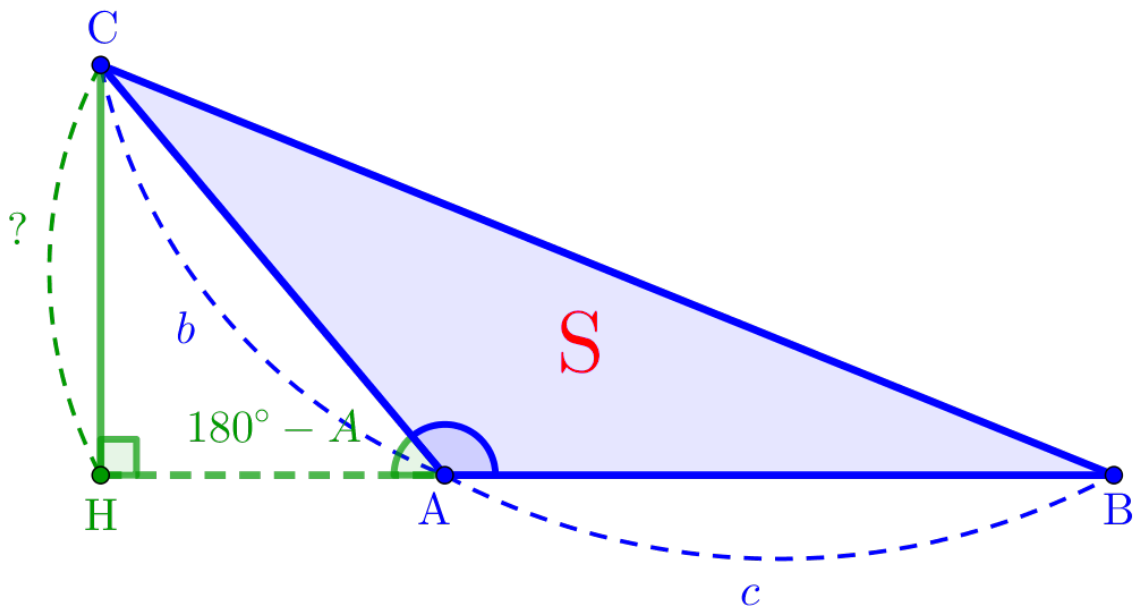
$$\sin(180^\circ - A) = \frac{\overline{\mathrm{CH}}}{b}$$



The Area of Obtuse Triangle

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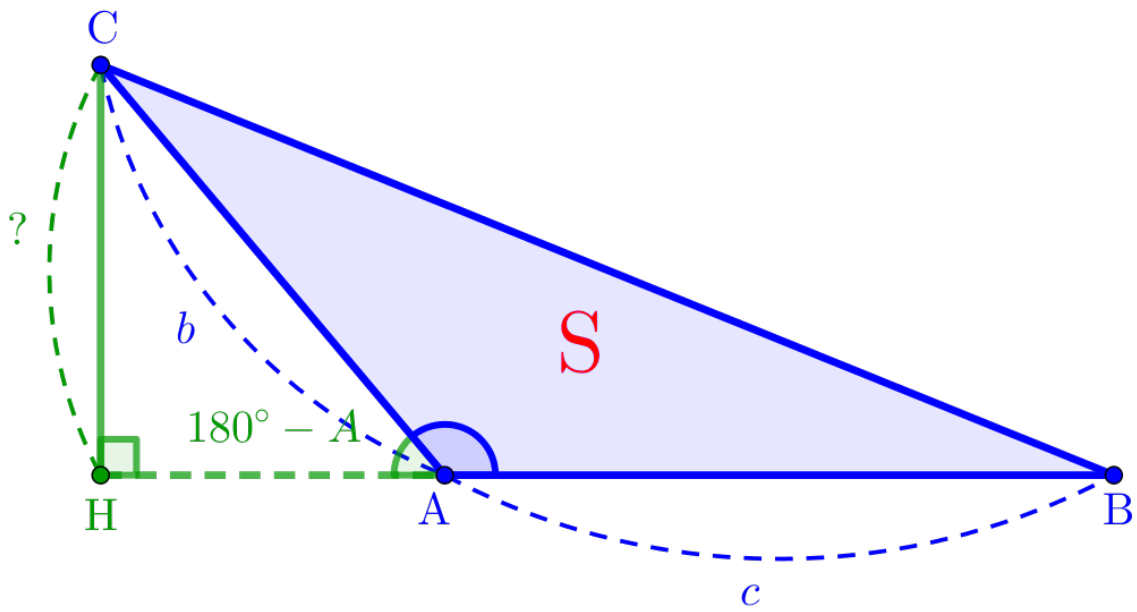
$$\sin(180^\circ - A) = \frac{\overline{\mathrm{CH}}}{b}$$

$$\therefore \overline{\mathrm{CH}} = b\sin(180^\circ - A)$$



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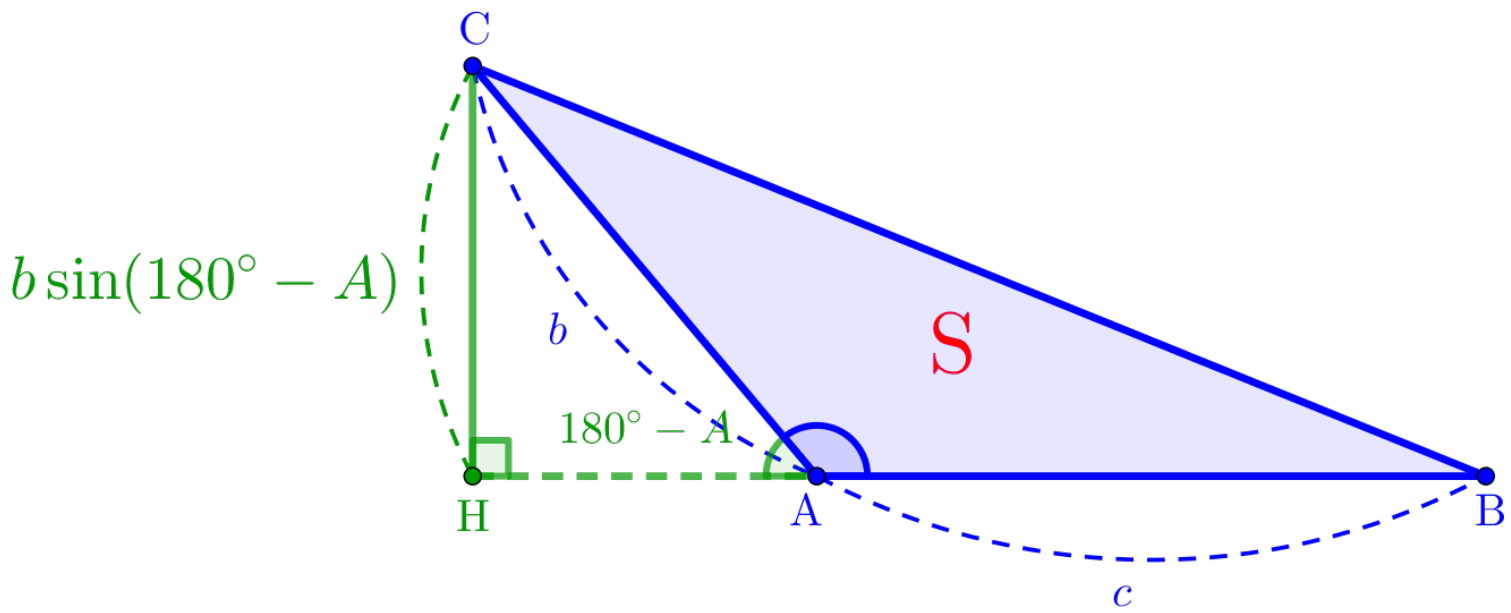
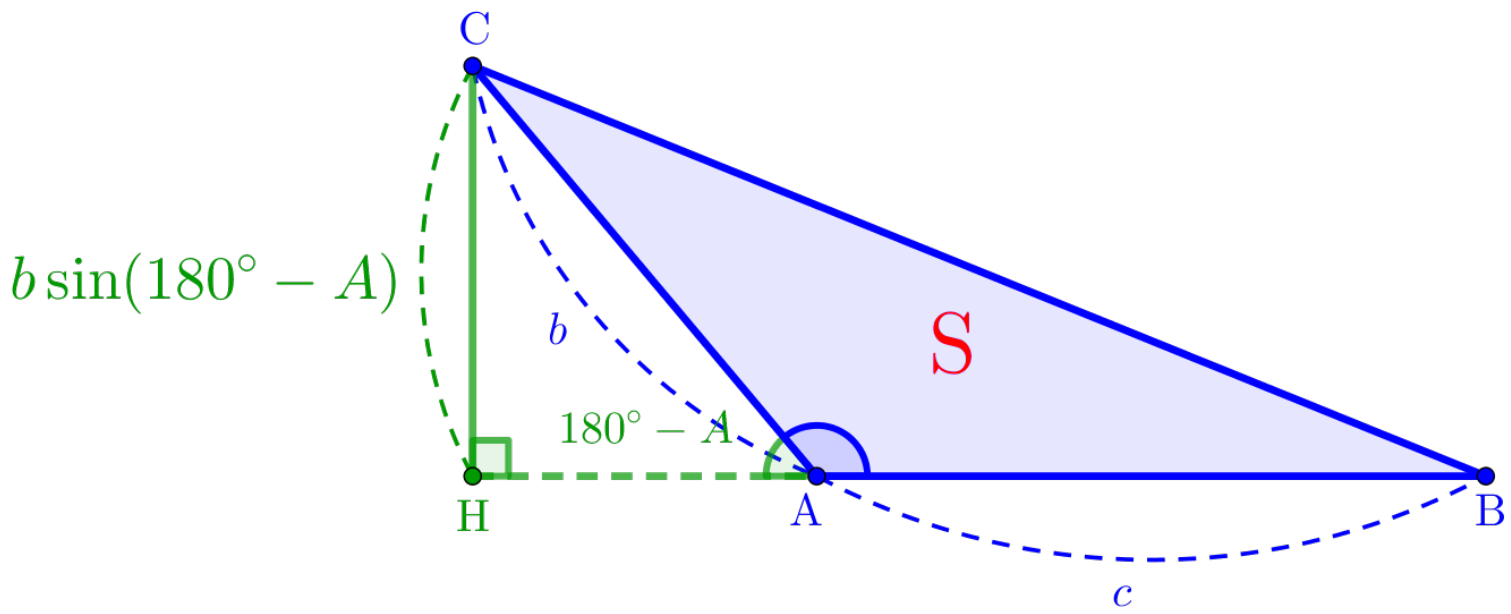


The Area of Obtuse Triangle

Start

$$\sin(180^\circ - A) = \frac{\overline{\mathrm{CH}}}{b} \qquad \mathrm{S} = \frac{1}{2} \times c \times b\sin(180^\circ - A)$$

$$\therefore \overline{\mathrm{CH}} = b\sin(180^\circ - A)$$



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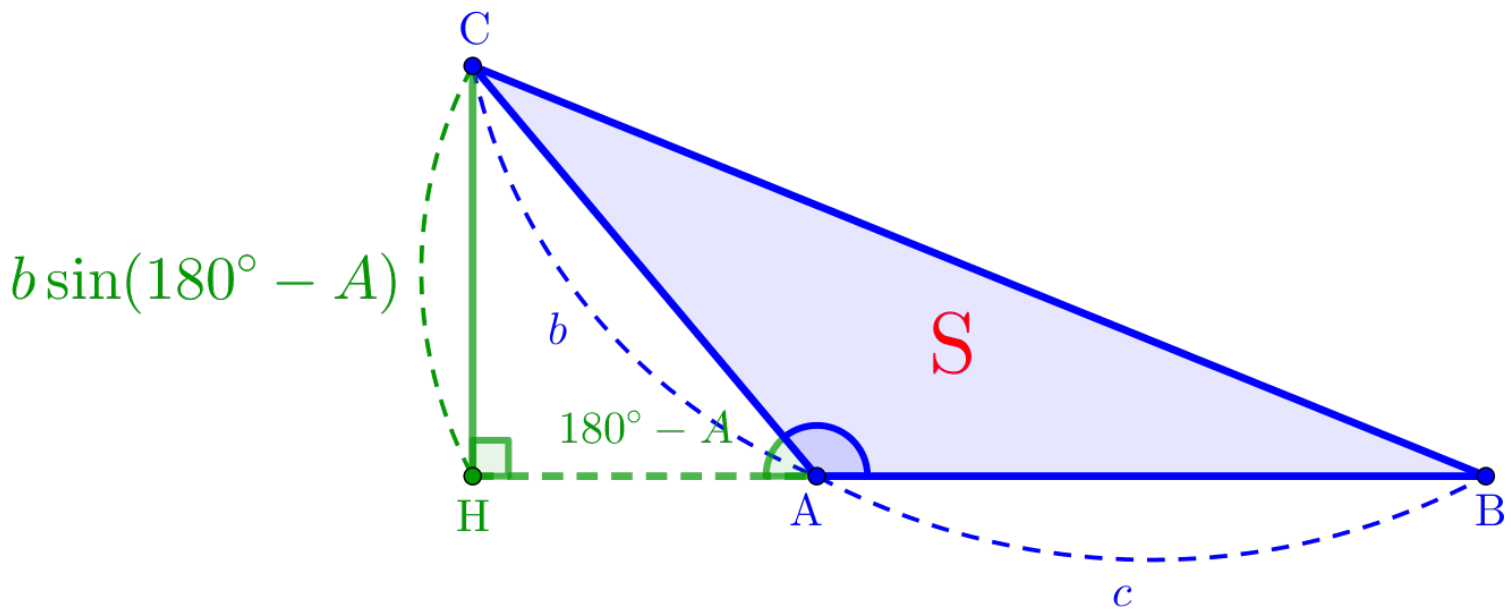
$$\mathrm{S} = \frac{1}{2} \times c \times b\sin(180^\circ - A)$$

$$= \frac{1}{2} cb\sin(180^\circ - A)$$



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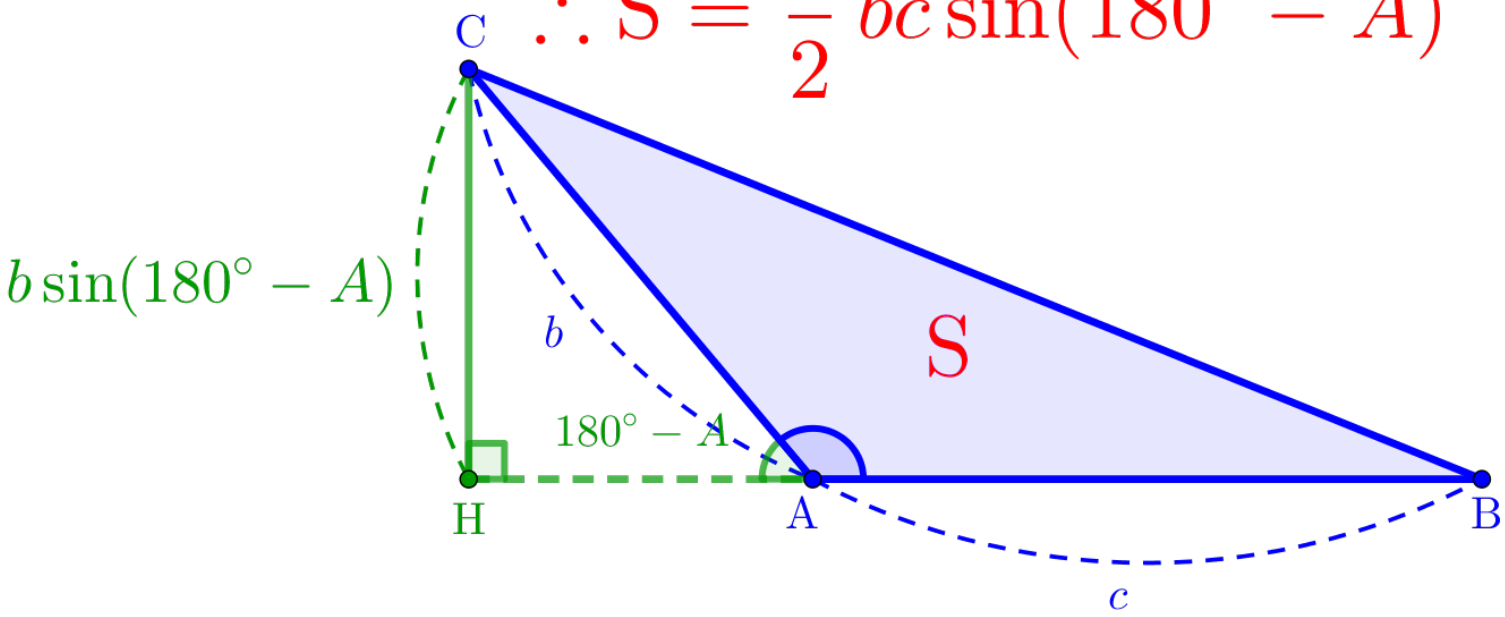
$$= \frac{1}{2} cb\sin(180^\circ - A)$$

$$\therefore S = \frac{1}{2} bc\sin(180^\circ - A)$$



The Area of Obtuse Triangle

Home

$$\sin(180^\circ - A) = \frac{\overline{\mathrm{CH}}}{b}$$

$$\therefore \overline{\mathrm{CH}} = b\sin(180^\circ - A)$$

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$$\therefore \mathrm{S} = \frac{1}{2}\, bc\sin(180^\circ - A)$$