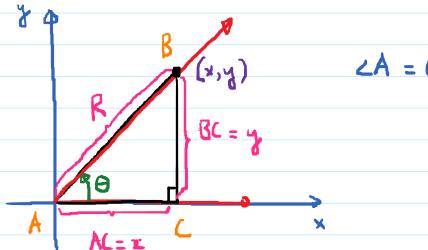
2. L Trigonometrie Functions of Acute Angles. Wednesday, January 29, 2020 9:30 AM



$$cosA = \frac{x}{R} = \frac{AC}{AB} = \frac{side adjacent to A}{hypotenume}$$

tan A =
$$\frac{4}{x}$$
 = $\frac{BC}{AC}$ = $\frac{\text{Nide adjacent to A}}{\text{Nide adjacent to A}}$

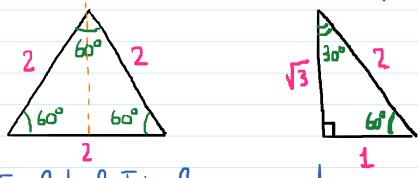
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E.g. B Find
$$A = \frac{13}{7}$$
 can $B = \frac{6}{7}$
 $C = 7$
 $C = \frac{7}{13}$
 $C = \frac$

$$a^{2} + b^{2} = c^{2} \longrightarrow 36 + b^{2} = 49 \longrightarrow b^{2} = 49 - 36 = 13$$

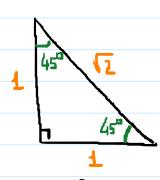
$$b = \sqrt{13}$$

Trigonometric Function Values of Special Angles



Equilateral Triangle

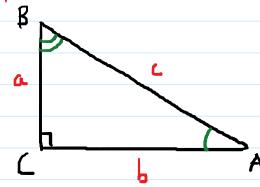
$$5 \times 30^{\circ} = \frac{1}{2}$$
; $5 \times 30^{\circ} = 2$
 $5 \times 30^{\circ} = \frac{1}{2}$; $5 \times 30^{\circ} = \frac{2}{13}$
 $5 \times 30^{\circ} = \frac{1}{2}$; $5 \times 30^{\circ} = \frac{2}{13}$
 $5 \times 30^{\circ} = \frac{1}{2}$; $5 \times 30^{\circ} = \frac{2}{13}$
 $5 \times 30^{\circ} = \frac{1}{2}$
 $7 \times 30^$



$$\int \sin 45^\circ = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$
 $\int \cos 45^\circ = \sqrt{2}$
 $\int \cos 45^\circ = \sqrt{2}$

Iroceles Right Triangle

Co function Identities



$$\angle A + \angle B = 90^{\circ}$$

$$A = \frac{a}{c}$$
; $\cos B = \frac{a}{c}$ $\sin A = \cos B$

$$tan A = \frac{a}{b}$$
; $cot B = \frac{a}{b}$ $tan A = cot B$

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For any ocute angle A:

$$E.g. \sin 9^\circ = \cos 81^\circ \cos 65^\circ = \sec 25^\circ.$$