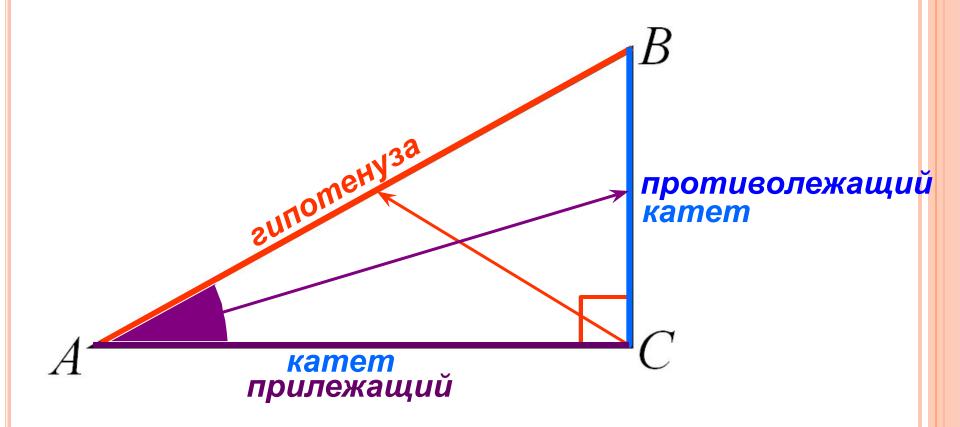
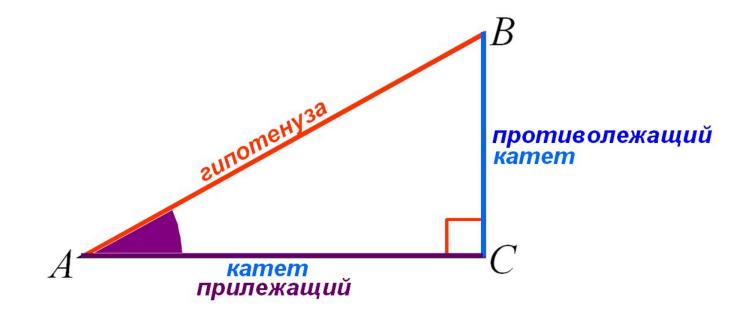


Урок-закрепление изученного материала





$$sin A = \frac{npomuвoлежащий катет}{гипотенуза}$$

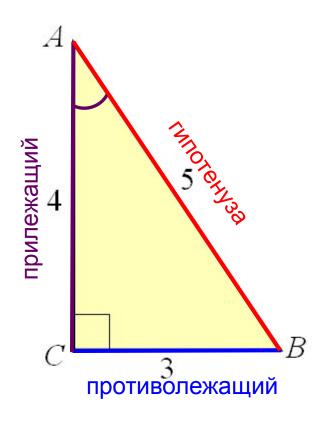
$$\cos A = \frac{nрилежащий катет}{гипотенуза}$$

$$tgA = \frac{npomuвoлежащий катет}{npuлежащий катет}$$

$$sin A = \frac{BC}{AB}$$

$$\cos A = \frac{AC}{AB}$$

$$tgA = \frac{BC}{AC}$$

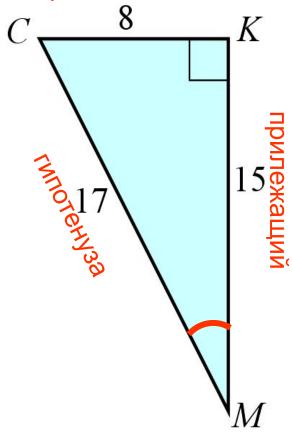


$$\sin \angle A = \frac{CB}{AB} = \frac{3}{5}$$

$$\cos \angle A = \frac{AC}{AB} = \frac{4}{5}$$

$$tg \angle A = \frac{CB}{AC} = \frac{3}{4}$$

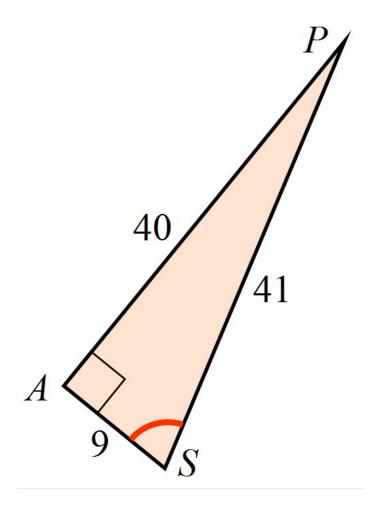
### противолежащий



$$sin \angle M = \frac{CK}{CM} = \frac{8}{17}$$

$$\cos \angle M = \frac{MK}{CM} = \frac{15}{17}$$

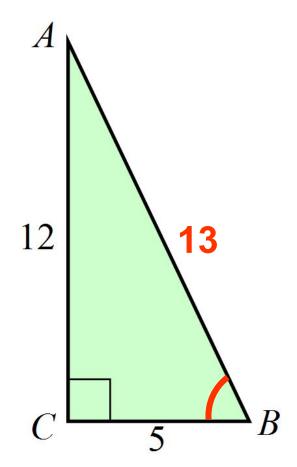
$$tg \angle M = \frac{CK}{KM} = \frac{8}{15}$$



$$\sin \angle S = \frac{40}{41}$$

$$\cos \angle S = \frac{9}{41}$$

$$tg \angle S = \frac{40}{9}$$

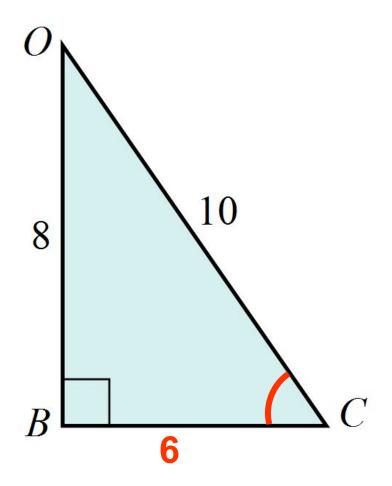


$$\sin \angle B = \frac{12}{13}$$

$$\cos \angle B = \frac{5}{13}$$

$$tg\angle B = \frac{12}{5} = 2.4$$

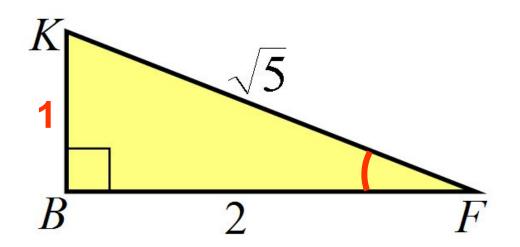
$$x^2 = 5^2 + 12^2$$
$$x^2 = 169$$



$$sin \angle C = \frac{8}{10} = 0.8$$

$$\cos \angle C = \frac{6}{10} = 0.6$$

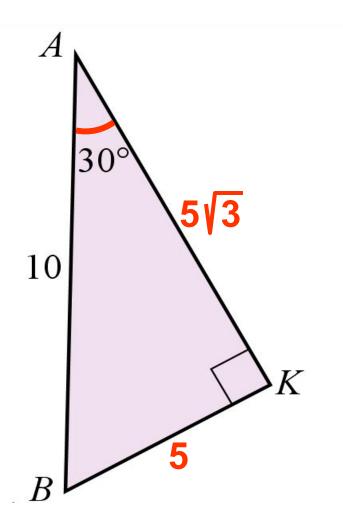
$$tg \angle C = \frac{8}{6} = \frac{4}{3}$$



$$\sin \angle F = \frac{1}{\sqrt{5}}$$

$$\cos \angle F = \frac{2}{\sqrt{5}}$$

$$tg\angle F = \frac{1}{2}$$



$$\sin 30^{\mathbb{N}} = \frac{1}{2}$$

$$\cos 30^{\square} = \frac{\sqrt{3}}{2}$$

$$tg \ 30^{\circ} = \frac{1}{\sqrt{3}}$$

# 

$$\sin 60^{\circ} = \frac{\sqrt{3}}{2}$$

$$\cos 60^{\circ} = \frac{1}{2}$$

$$tg 60^{8} = \sqrt{3}$$

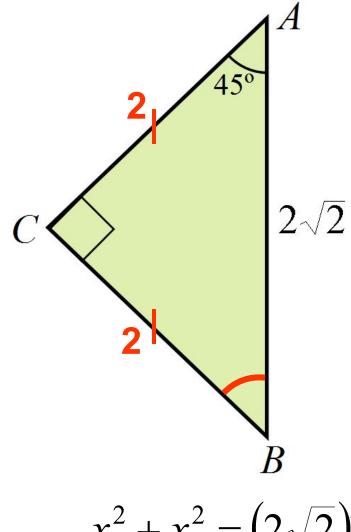
# 45°

$$\sin 45^{\mathbb{N}} = \frac{1}{\sqrt{2}}$$

$$\cos 45^{\mathbb{N}} = \frac{1}{\sqrt{2}}$$

$$tg 45^{\circ} = 1$$

$$x^2 = 3^2 + 3^2$$
$$x^2 = 18$$

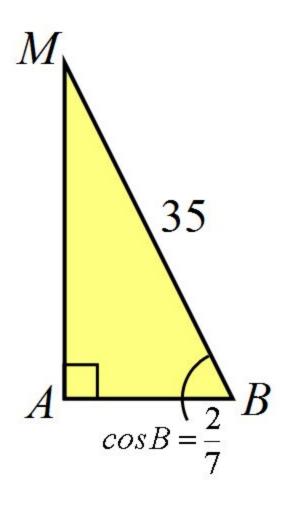


$$x^2 + x^2 = (2\sqrt{2})^2$$
$$2x^2 = 8$$

$$\sin \angle B = \frac{1}{\sqrt{2}}$$

$$\cos \angle B = \frac{1}{\sqrt{2}}$$

$$tg\angle B = 1$$



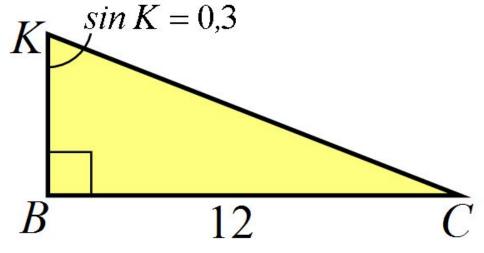
# Найти AB

$$\cos B = \frac{2}{7}$$

$$\frac{AB}{MB} = \frac{2}{7}$$

$$\frac{AB}{35} = \frac{2}{7} \longrightarrow AB = 10$$

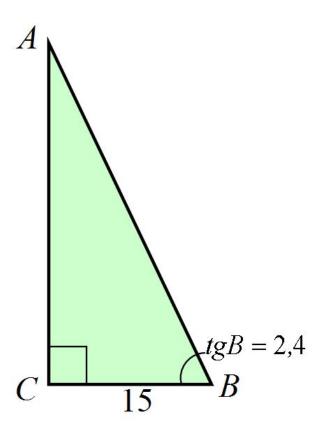
K=0.3 Найти KC



$$\sin K = \frac{3}{10}$$

$$\frac{BC}{KC} = \frac{3}{10}$$

$$\frac{12}{KC} = \frac{3}{10} \longrightarrow KC = 40$$



Найти AC и AB

$$tgB = \frac{24}{10}$$

$$\frac{AC}{BC} = \frac{12}{5}$$

$$\frac{AC}{15} = \frac{12}{5} \longrightarrow AC = 36$$

AB = 39

$$\cos C = \frac{8}{17}$$

$$17x$$

$$M$$

Найти 
$$CK$$
 и  $CM$ 

$$\cos C = \frac{8}{17}$$

$$\frac{CK}{CM} = \frac{8}{17} \longrightarrow \frac{CK = 8x}{CM = 17}x$$

$$(17x)^{2} = (8x)^{2} + 30^{2}$$
$$225x^{2} = 900$$
$$x^{2} = 4$$

$$CK = 8 \cdot 2 = 16$$
  
 $CM = 17 \cdot 2 = 34$ 

# **4***x* $3x_{tgC} = \frac{3}{2}C$

$$30^{2} = (3x)^{2} + (4x)^{2}$$
$$25x^{2} = 900$$
$$x^{2} = 36$$

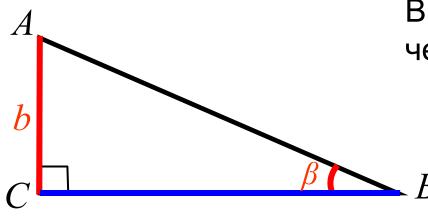
# Найти AB

$$tgC = \frac{3}{4}$$

$$? \frac{AB}{AC} = \frac{3}{4} \longrightarrow AB = 3x$$

$$AC = 4x$$

$$AB = 3 \cdot 6 = 18$$
$$AC = 4 \cdot 6 = 24$$



Выразить катет BC через b и  $\beta$ .

Для данного угла

**АС** – противолежащий катет,

СВ – прилежащий катет

2. Записать функцию угла *β*, которая вычисляется с помощью этих сторон

$$tg\beta = \frac{AC}{CB}$$

$$CB = \frac{AC}{tg\beta}$$