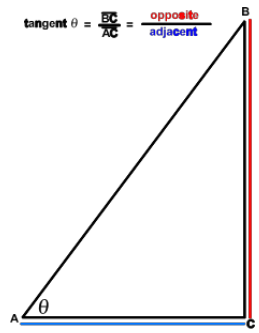
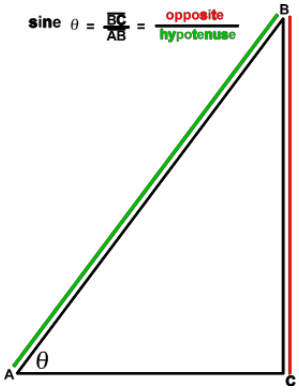
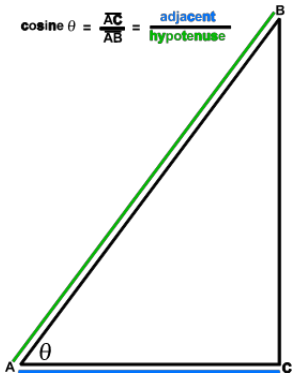
Chapter 6 Trig Functions

-trigonometry is all about angles and their measures.
-based on right triangles with 3 primary trig ratios - sin, cos, and tan.







-there are 3 reciprocal trig ratios - csc, sec, cot

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Finding values of trig ratios:

EX: $\sin 30^o$

In Calculator:

EX: $\sin\theta = 0.5$

In Calculator:

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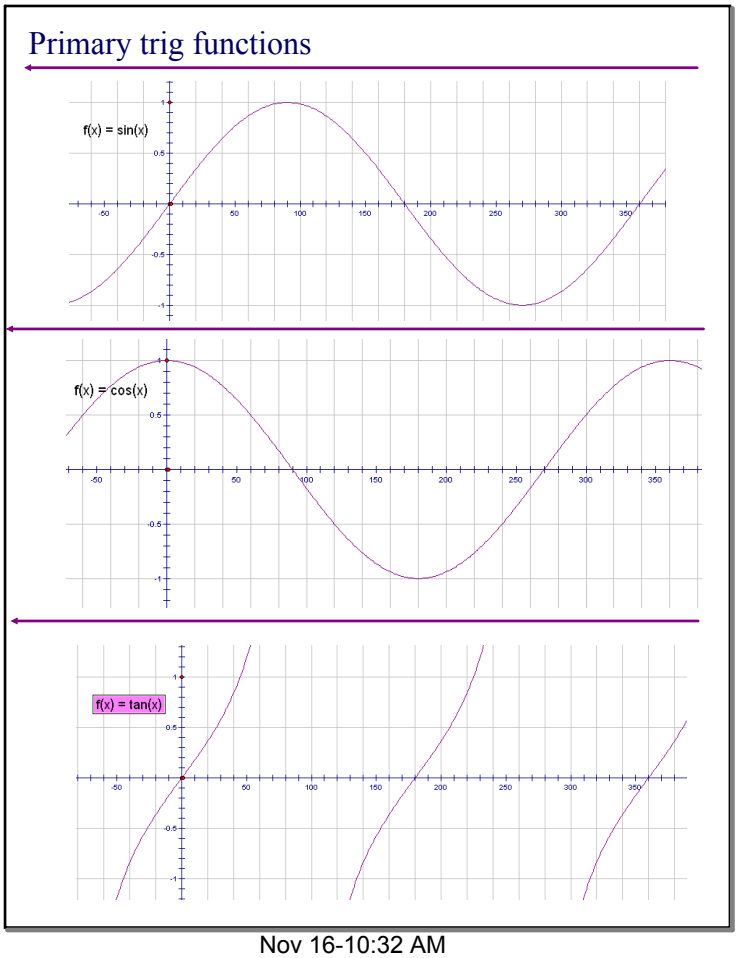
Primary trig functions



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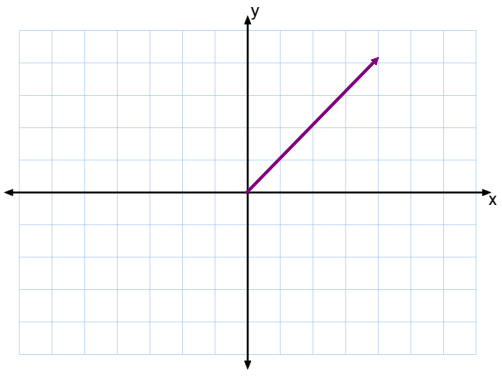
CAST Rule More than one answer



Solve for "x" (0<x<360)

$$\sin x = \frac{1}{2} \qquad \tan x = -\frac{5}{4}$$

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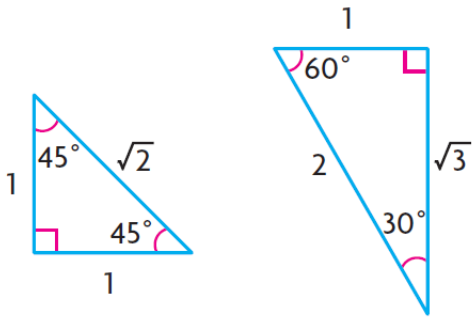
Special Triangles: -used to solve some trig ratios without a calculator



EX: sin 60°

$$\cos\theta = \frac{1}{\sqrt{2}}$$

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Transformations same as always

$$y = 2\sin(3(x+45^0))-4$$

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Homework
p314 #1-6

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