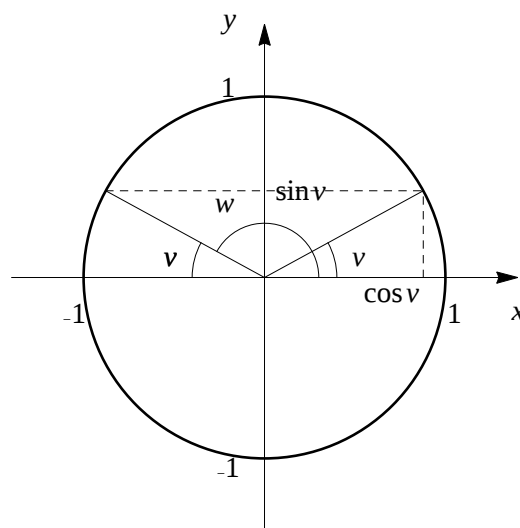


## Repetition 7, 20160207

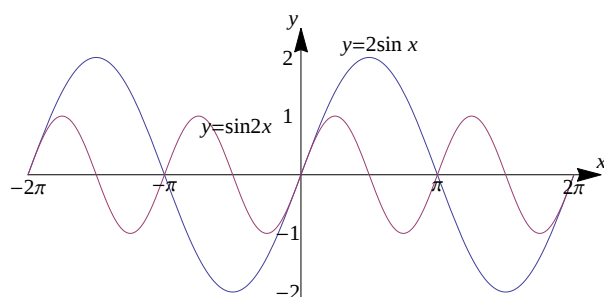
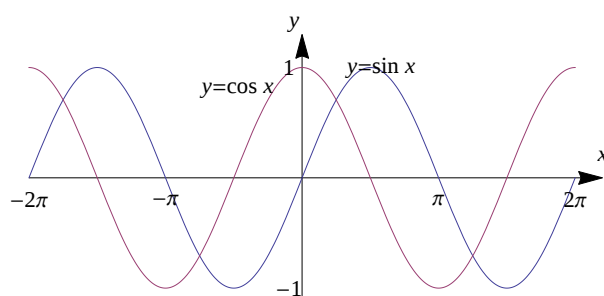
funktioner för godtycklig vinkel    Enhetscirkeln

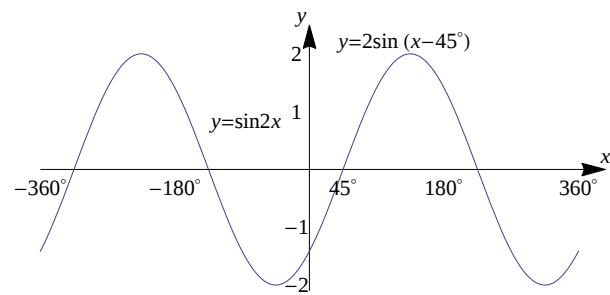


|                                       | 1:a kvadrant | 2:a kvadrant | 3:e kvadrant | 4:e kvadrant |
|---------------------------------------|--------------|--------------|--------------|--------------|
| $\cos v$                              | +            | -            | -            | +            |
| $\sin v$                              | +            | +            | -            | -            |
| $\tan v \equiv \frac{\sin v}{\cos v}$ | +            | -            | +            | -            |

$$\begin{cases} \sin(180^\circ - v) = \sin v \\ \cos(180^\circ - v) = -\cos v \\ \tan(180^\circ - v) = -\tan v \end{cases}$$

Några grafer av  
trigonometriska funktioner





| Funktion      | $A$ | $T$         | $\omega$ |
|---------------|-----|-------------|----------|
| $3 \sin x$    | 3   | $360^\circ$ | 1        |
| $5 \cos(x/2)$ | 5   | $720^\circ$ | $1/2$    |