Type 2: When there is more than 1 ratio in the equation.

We will have to use factorization !!

Example:

Solve for x if:

$\cos x - 4 \cos x \cdot \sin x = 0$

Homework:

- Solve for x if:
  1) $3 \sin x + 4 \sin x . \cos x = 0$
  2) $3 \sin^2 x - 2 \sin x = 0$

  with $x \in [-360° ; 360°]$

Type 3: {equation has different ratio's - can't factorize - have to make 'Tan'}

Example

Solve for x if:

$3\cos x - \sin x = 0$

I-Homework:

Solve for x if:

1) $3 \sin x - 2 \cos x = 0$

2) $3 \sin^2 x - 5 \sin x . \cos x = 0$

Type 4: {Trinomials}

* Factorize !!
→ use Algebra knowledge...

Example

Solve for x if:

$2\cos^2 x - 3\cos x = -1$

Homework:

Solve for x if:

1) $3 \sin^2 x = 2 - 5 \sin x$

2) $3 \tan^2 x = 2 - \tan x$