Difference of squares

Wednesday, December 16, 2020 11:15 AM

$$a^2 - b^2 = (a+b)(a-b)$$

1) $x^2 - 25$

$= x^2 - 5^2$ → $5^2 = 25$

$= x^2 - 5^2$

$= (x-5)(x+5)$

Use

2) $49x^2 - 100$

$= 49x^2 - 10^2$

$= 7^2x^2 - 10^2$

$= (7x)^2 - 10^2$

$* = (7x-10)(7x+10)$

use