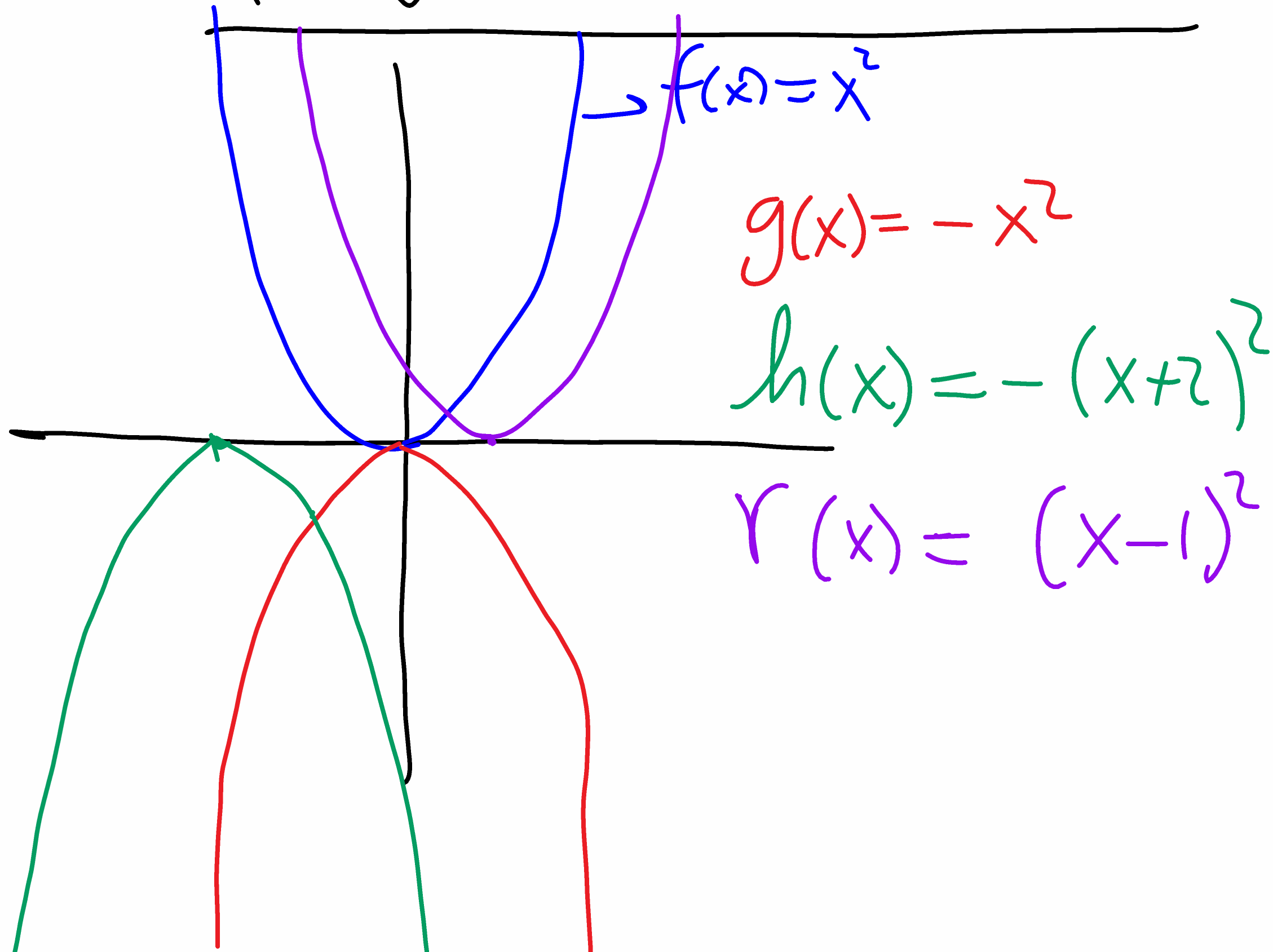
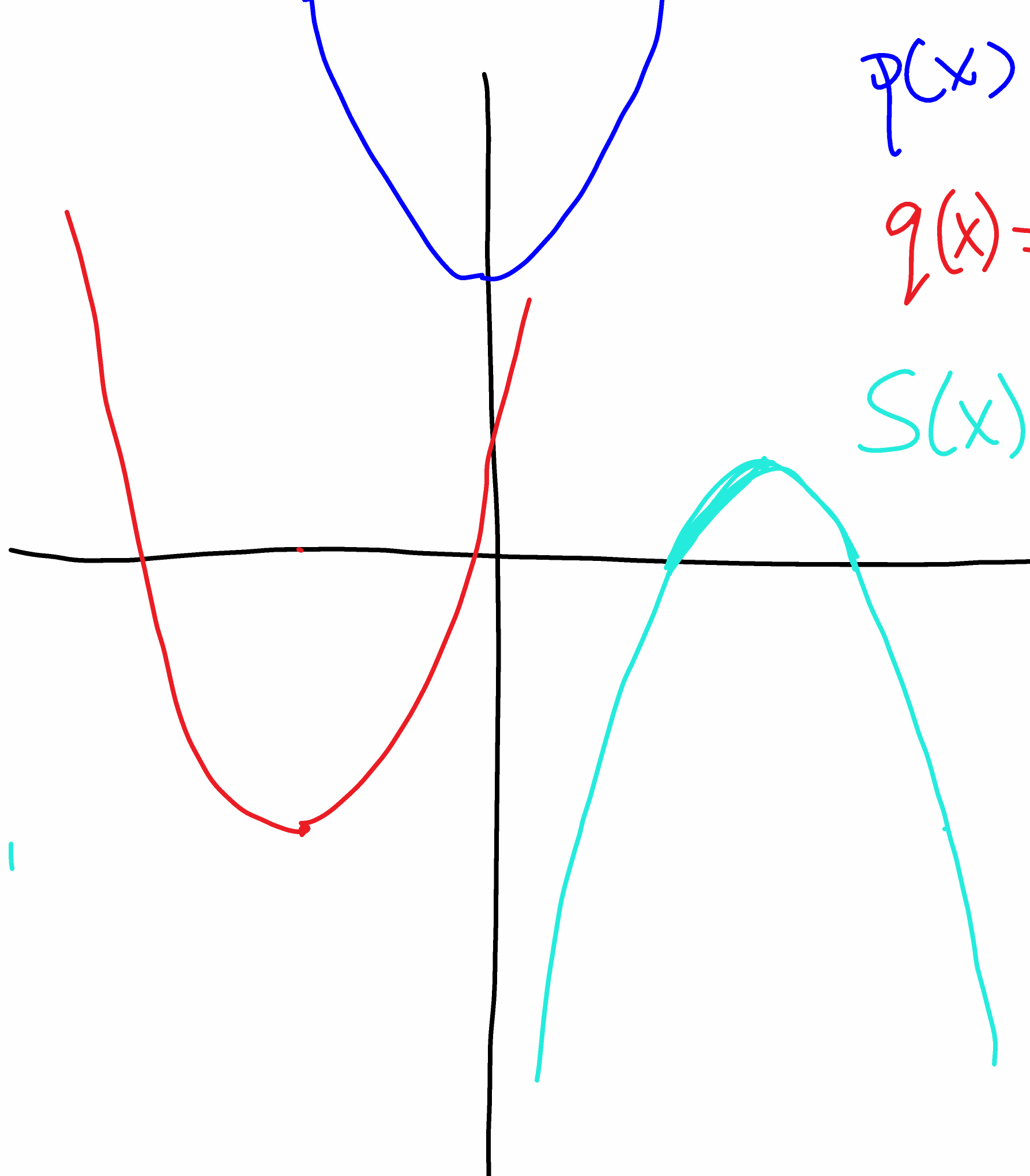


EXAMPLES OF TRANSFORMATIONS OF QUADRATIC FUNCTIONS

Thu 29 Nov 2018





$$p(x) = x^2 + 3$$

$$q(x) = (x+2)^2 - 3$$

$$s(x) = -(x-3)^2 + 1$$

REMINDER:

General expression
of a quadratic is

$$f(x) = a(x-h)^2 + k$$

HORIZONTAL
TRANSLATION

VERTICAL
TRANSLATION

$$t(x) = 2x^2$$

$a > 1 \Rightarrow$ Narrower

$$f(x) = x^2$$

$$u(x) = 0.5x^2$$

$a < 1 \Rightarrow$ Wider

