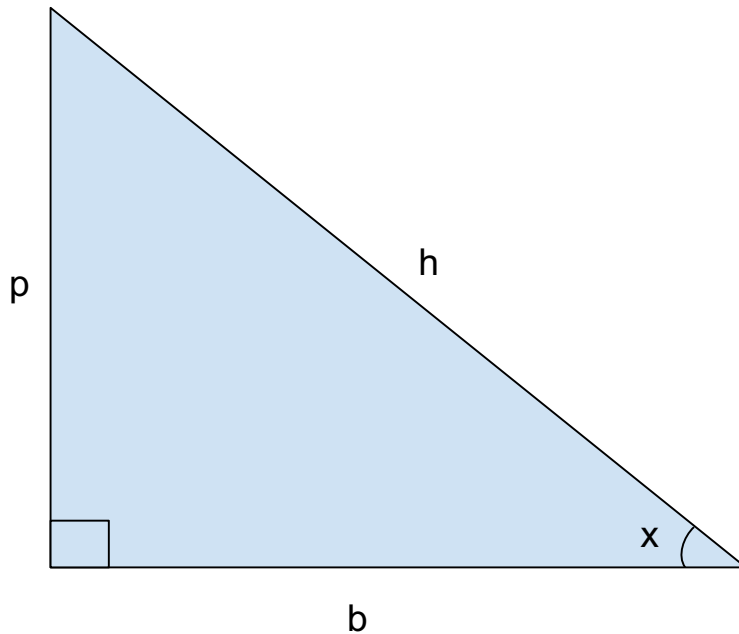


# Trigonometric ratios and functions

When given a right triangle,

Let  $p$  be the length of the perpendicular,  $b$  be the length of the base, and  $h$  be the length of the hypotenuse.



$$\sin(x) = \frac{p}{h}$$

$$\cos(x) = \frac{b}{h}$$

$$\sec(x) = \frac{h}{b}$$

$$\tan(x) = \frac{p}{b}$$

$$\operatorname{cosec}(x) = \frac{h}{p}$$

$$\cot(x) = \frac{b}{p}$$