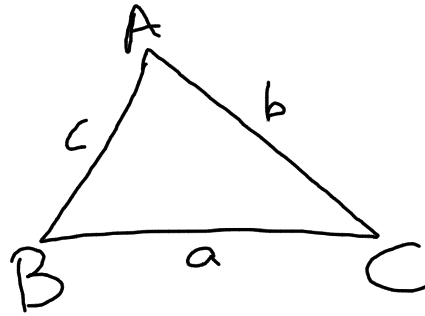
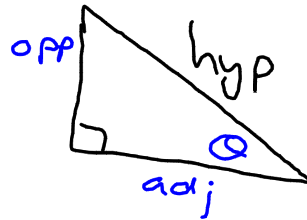


① TRIG
Labelling



For primary trig

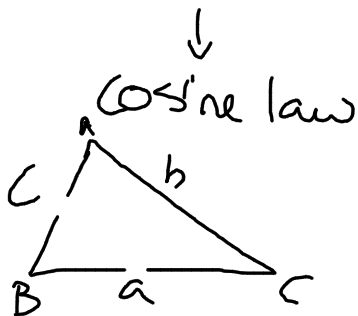


How to solve

90° Triangle

↙ Sine Law?

$$\frac{x}{\sin X} = \frac{y}{\sin Y}$$



$$a^2 = b^2 + c^2 - 2bc \cos A$$

↘ Yes

Pythagorean Theorem



$$d^2 = e^2 + f^2$$

↓

Primary Trig

SOH CAH TOA

② Quadratics

Vertex Form

$$a^* y = 2(x-3)^2 + 4$$

↳ $V(3, 4)$

↳ Stretch of 2

Factored form

$$y = 3(x+4)(x-5)$$

↳ Zeros
"x-intercepts"

$$x = -4$$

$$x = 5$$

↳ Stretch of 3

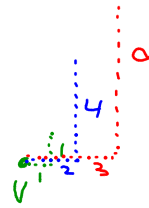
↳ Axis of Symmetry

$$\frac{x_1 + x_2}{2}$$

$$\text{ex : } \frac{-4 + 5}{2}$$

$$= \frac{1}{2}$$

Normal Pattern



→ Find vertex?
Sub in $x = \frac{1}{2}$

Standard Form

$$y = x^2 + 2x + 3$$

↑
Stretch
"here it is 1"

Initial value
y-intercept

③ Probability & Stats

Experimental vs. Theoretical

↑
Actual %
after experiment

↑
What chance do I have
"What should the %
look like?"

- Know:

- Different graph types
- Odds of balls in a bag (and similar)
- Types of groups for surveys
"stratified random...", etc
- Mean / Median / Mode
- Standard Deviation (Lesson 3.9)
- Types of Distributions

④ Exponents

- Exponent Rules
- Exponential Growth/Decay
- Graphing
- Modelling growth/decay problems

⑤ Finance

- Simple Interest
- Compound Interest
- Present value

⑥ Geometry

- Units / Scale
- Nets
- Orthographic
- Isometric