

$$dx = \frac{72 - 11}{n}$$

$$dy = \frac{42 - 11}{n}$$

$$dx = \frac{700 - 100}{20}$$

$$dy = \frac{50n - 100}{20}$$

$$dy = \frac{30}{20}$$

$$dy = \frac{30}{20}$$

$$(x_{2}-y_{1})^{2} + (x_{2}-x_{1})^{2}$$

$$(x_{1}-y_{1})$$

$$(x_{1}-y_{1})$$

$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$

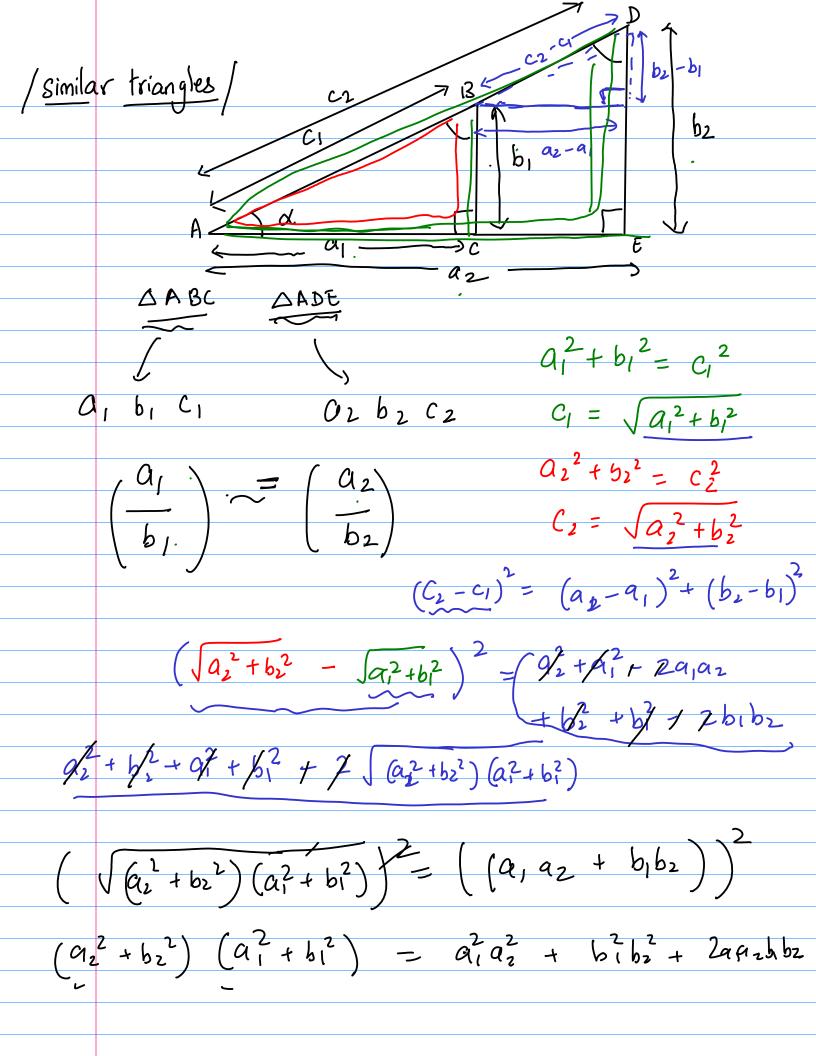
$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$

$$(x_{2}-y_{1})$$



$$a_1^2 a_1^2 + a_2^2 b_1^2 + b_2^2 a_1^2 + b_2^2 b_1^2 = a_1^2 a_2^2 + b_1^2 b_2^2 + b_1^2 b_2^2 + b_1^2 b_2^2$$

$$\frac{a_{2}^{2}b_{1}^{2}+b_{2}^{2}a_{1}^{2}=2a_{1}a_{2}(b_{1}b_{2})}{b_{1}b_{2}^{2}}=\frac{2a_{1}a_{2}(b_{1}b_{2})}{b_{1}b_{2}}=\frac{2a_{1}a_{2}(b_{1}b_{2})}{b_{1}b_{2}}$$

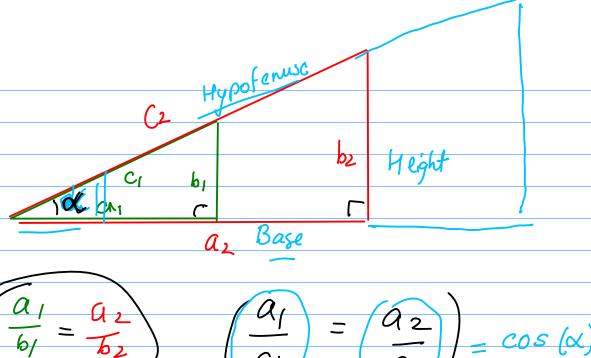
$$\Rightarrow \left(\frac{a_2}{b_2}\right)^2 + \left(\frac{a_1}{b_1}\right)^2 = 2\left(\frac{a_1}{b_1}\right)\left(\frac{a_2}{b_2}\right)$$

$$\left(\frac{a_2}{b_2}\right)^2 + \left(\frac{a_1}{b_1}\right)^2 - 2\left(\frac{a_1}{b_1}\right)\left(\frac{a_2}{b_2}\right) = 0$$

$$\left(\frac{a_2}{b_2} - \frac{a_1}{b_1}\right) = 0$$

$$\begin{array}{c|c}
a_2 & \\
\hline
b_2 & \\
\hline
b_1 & \\
\end{array}$$

$$\begin{array}{c}
a_2 \\
\overline{b_2} \\
\overline{b_1}
\end{array}$$

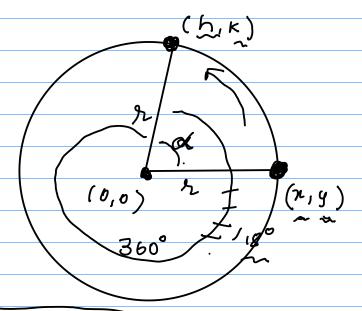


$$\frac{a_1}{b_1} = \frac{a_2}{b_2} \qquad \frac{a_1}{c_1} = \frac{a_2}{c_2} = \frac{a_2}{c_2}$$

$$\left(\frac{b_1}{c_1}\right) = \left(\frac{b_2}{c_2}\right) = \sin(\alpha)$$

$$Cos(\alpha) = \left(\frac{Base}{Hypofenuse}\right)$$
  $Sin(\alpha) = \left(\frac{Height}{Hypofenuse}\right)$ 

## CIRCULAR MOTION

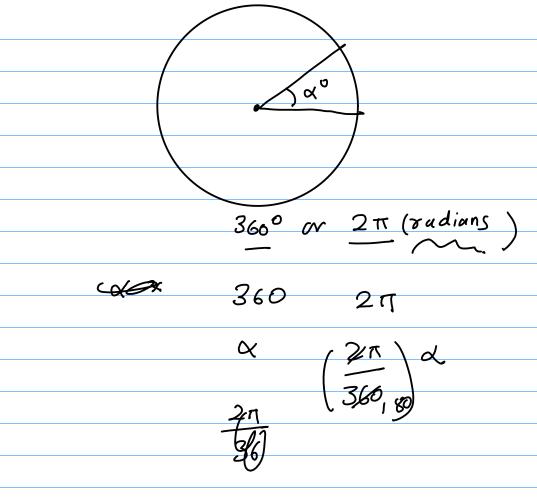


$$\frac{h}{x} = \frac{x \cos x - y \sin x}{x \sin x + y \cos x}$$

(If the Center is (cn, cy))

$$h = (n - cn) \cos d - (y - cy) \sin d + cx$$

$$K = (n - cn) \sin d + (y - cy) \cos d + cy$$



$$\frac{\text{deg} \rightarrow \text{radians}}{\text{x}\left(\frac{\pi}{180}\right)} \qquad \frac{90^{\circ} \rightarrow 90 \times \pi}{180} = \frac{\pi}{2} \text{ rad.}$$

$$\frac{\pi}{180} \qquad \frac{\pi}{4} \qquad \frac{\pi}{4} \qquad \frac{180}{4} \qquad \frac{\pi}{4} \qquad \frac$$