

• All truths are easy to understand once they are discovered; the point is to discover them.

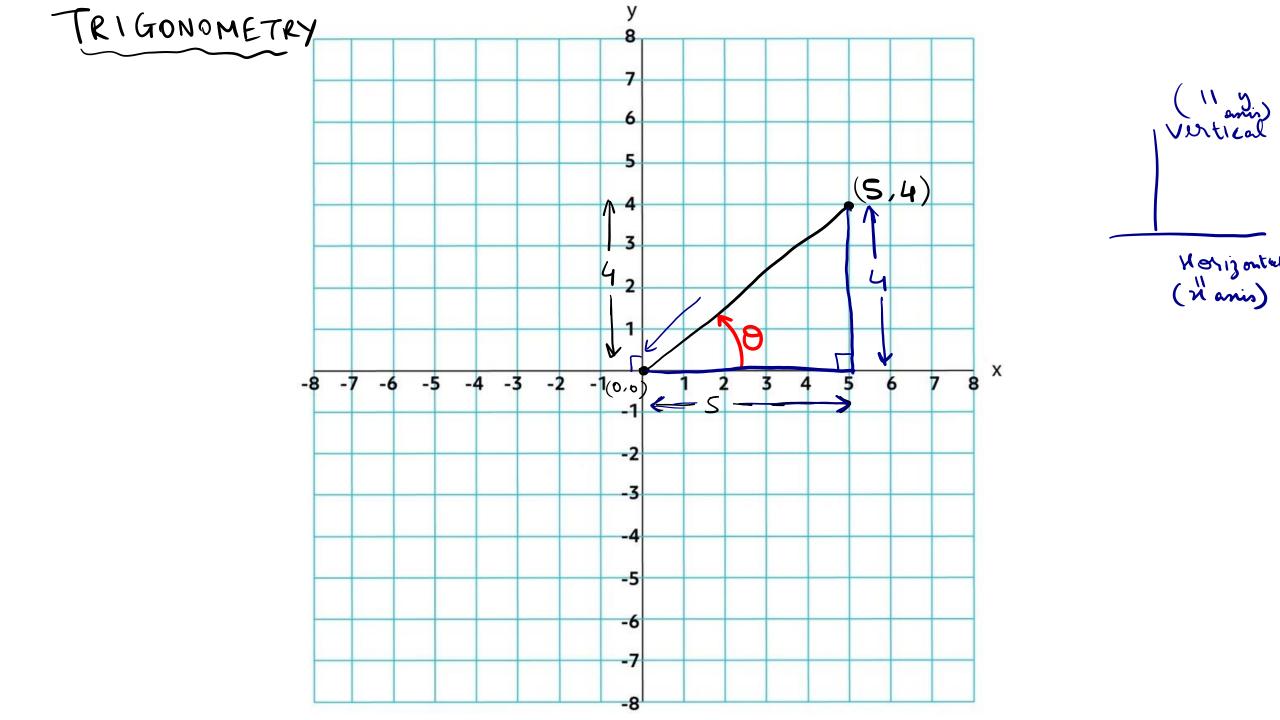
Galileo Galilei

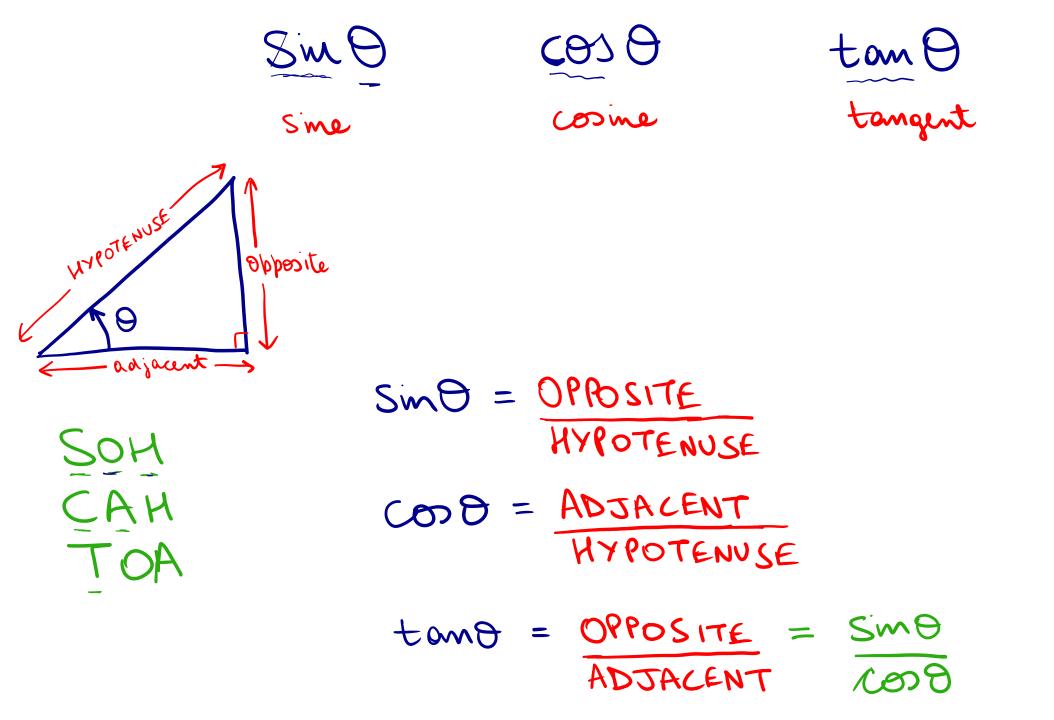
• We cannot teach people anything; we can only help them discover it within themselves.

Galileo Galilei

"Passion is the genesis of genius." — Galileo Galilei

- If you can't explain it simply, you don't understand it well enough.
 Albert Einstein
- It's not that I'm so smart, it's just that I stay with problems longer.
 Albert Einstein
- I have no special talent. I am only passionately curious.
 Albert Einstein
- We cannot solve our problems with the same thinking we used when we created them.
 Albert Einstein





$$(Hypotenuse)^{2} = (Adjecent)^{2} + (Opposite)^{2}$$
H.W. Use this relation to derive a relation
between SinO & CODO.

$$(SinO)^{2} + (COD)^{2} = 1$$

$$\Theta = 30^{\circ}$$

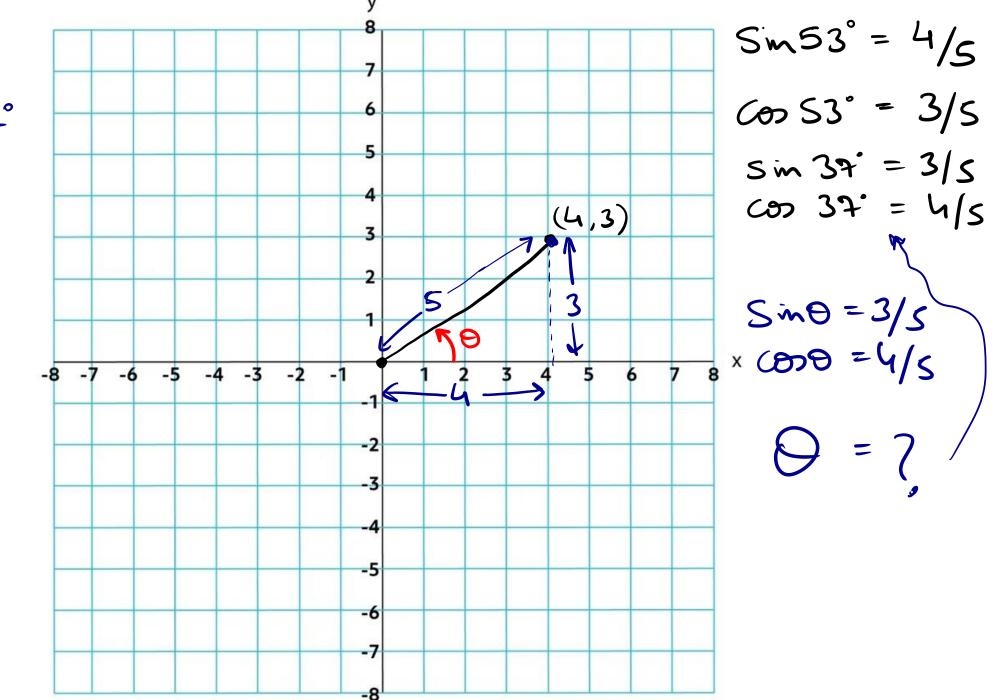
$$\int_{1}^{2} Sin^{2}\Theta + COD^{2}\Theta = 1$$

$$CODO = \frac{51}{2}$$

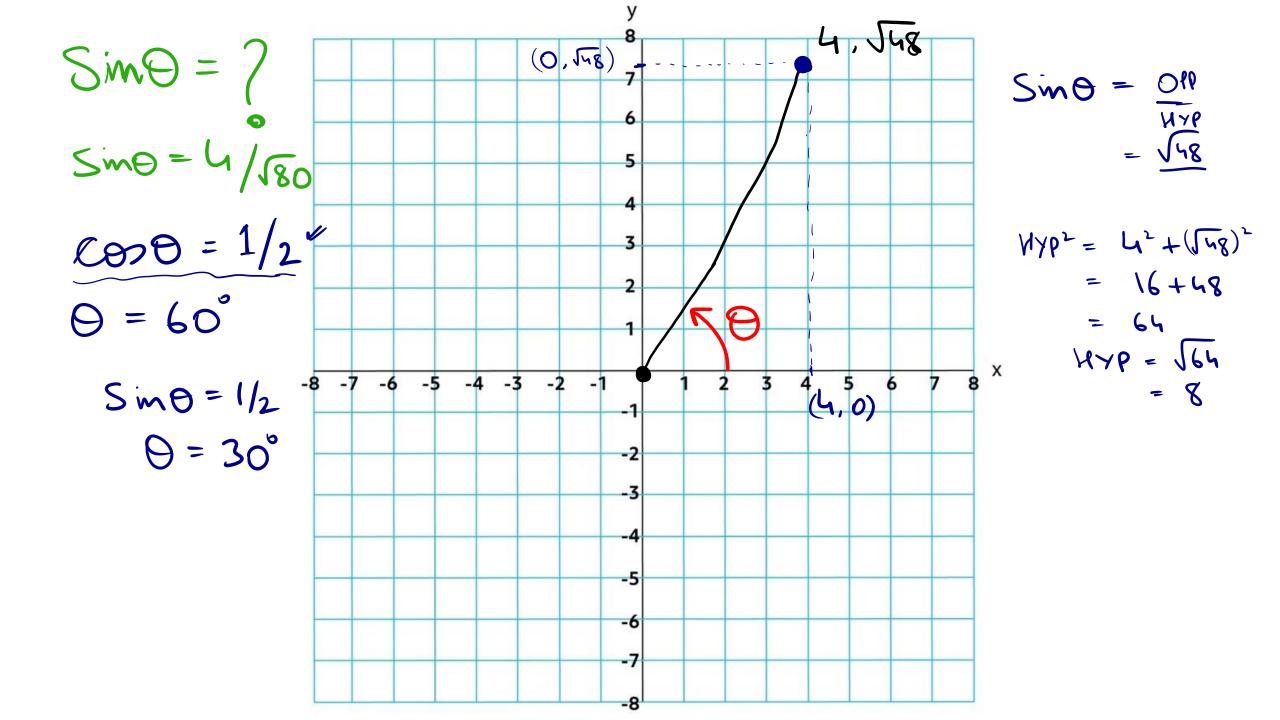
$$Sin^{2}30 + COD^{2}30$$

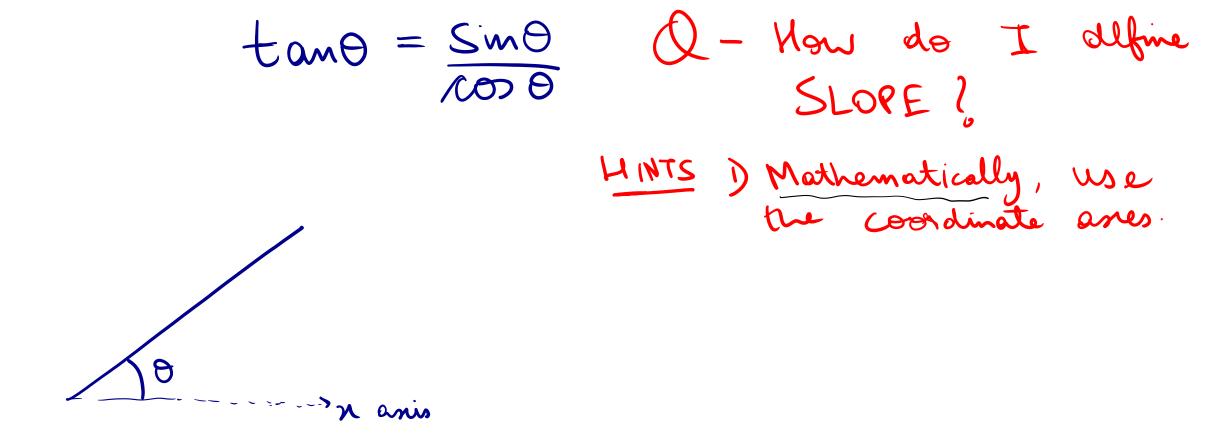
$$= \frac{1}{2} + \frac{3}{6} = 1$$

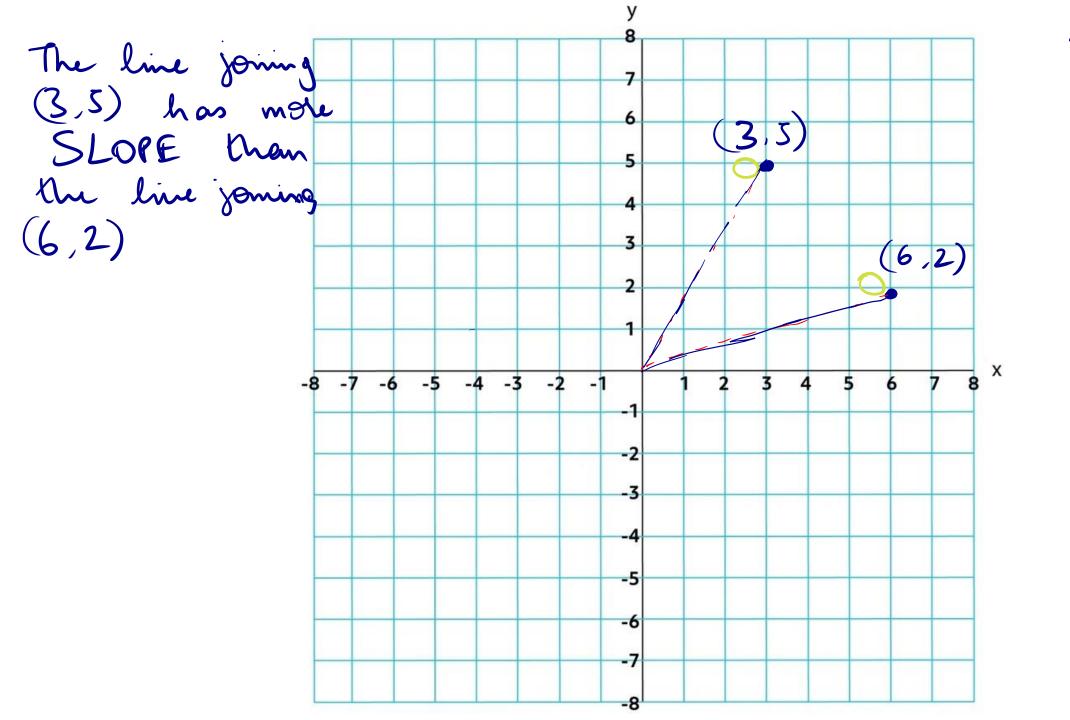
$$(SinO)^{2} = SinO \times SinO = (Sin^{2}\Theta)$$

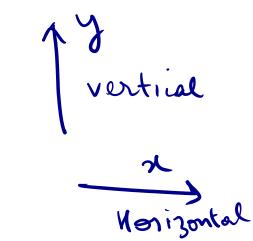


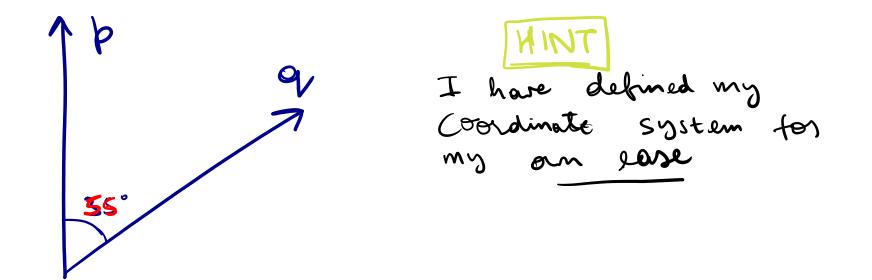


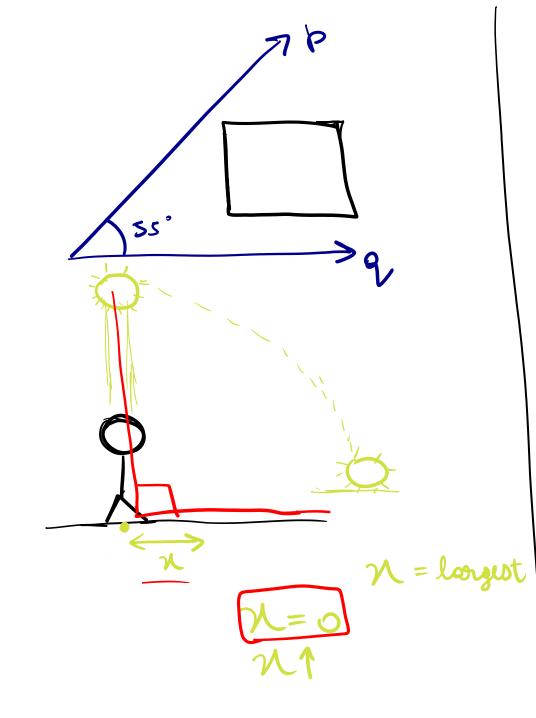




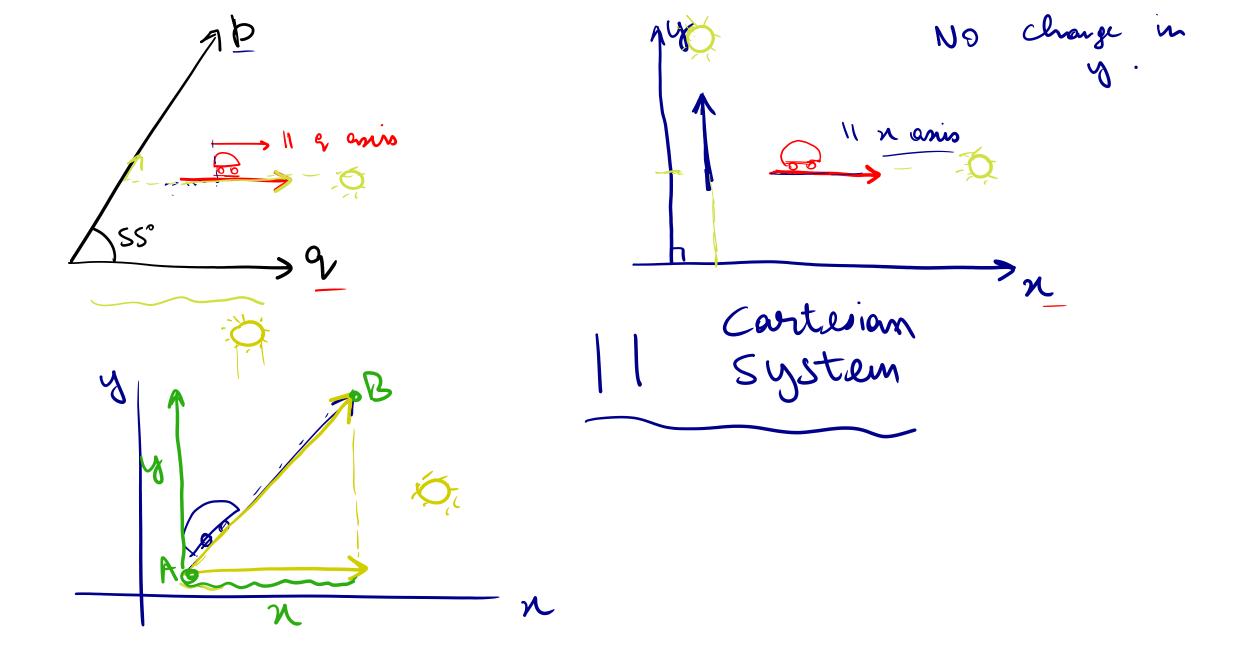


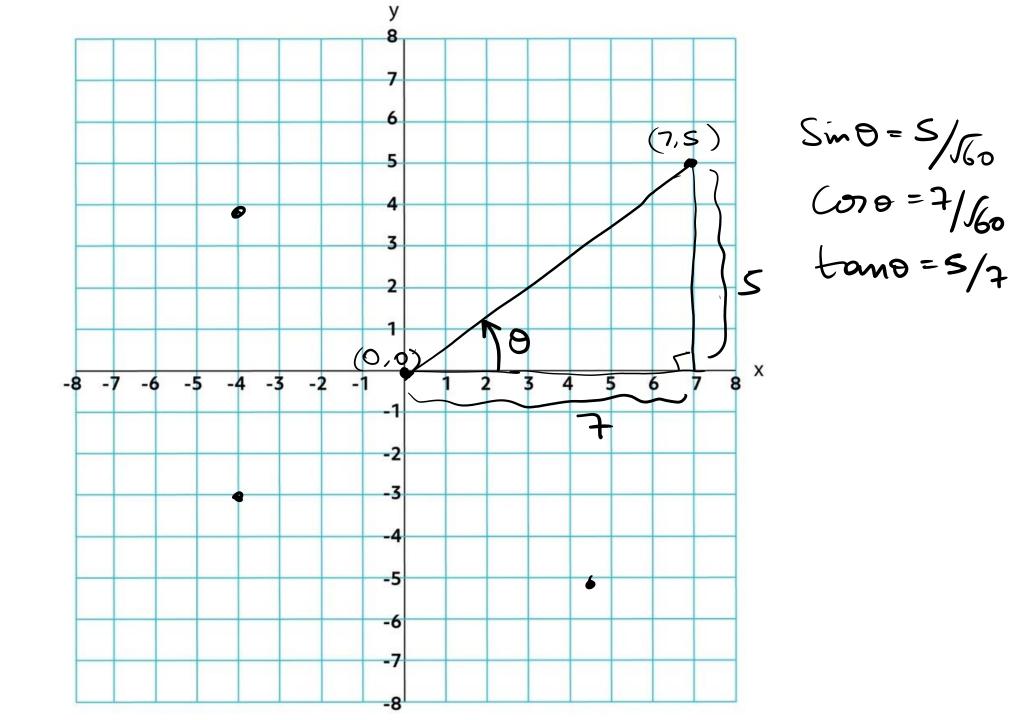


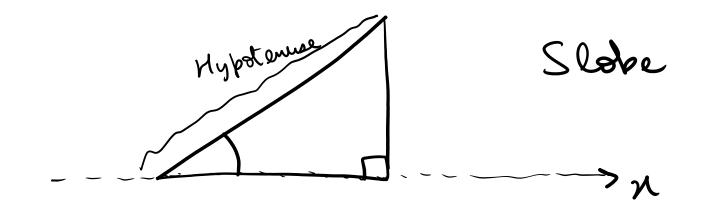


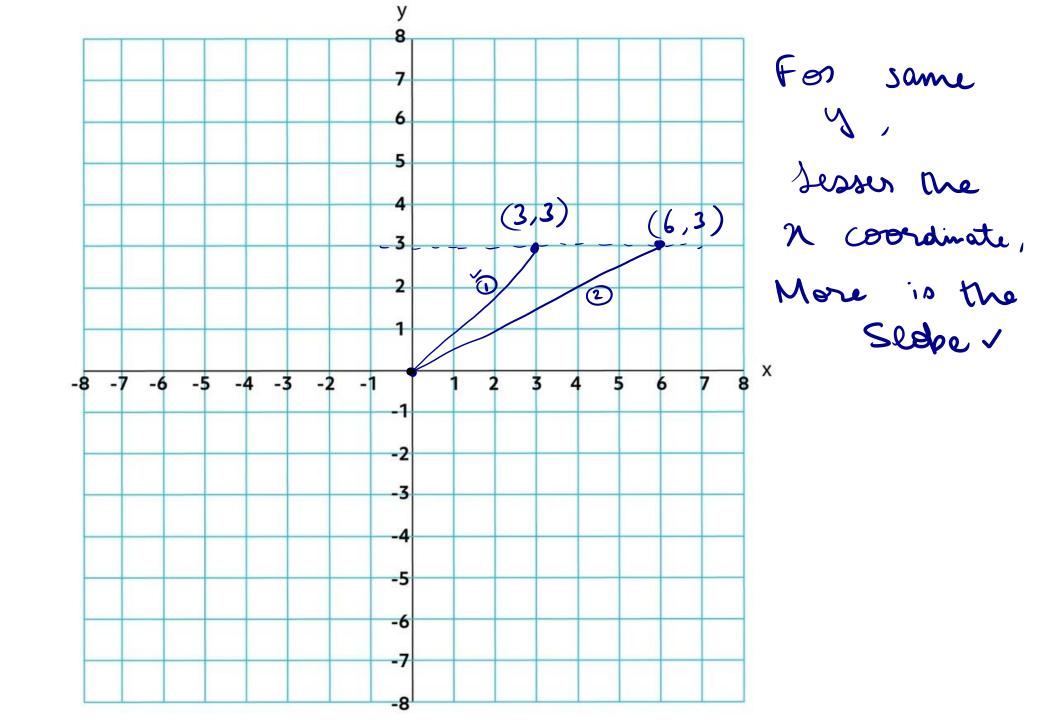


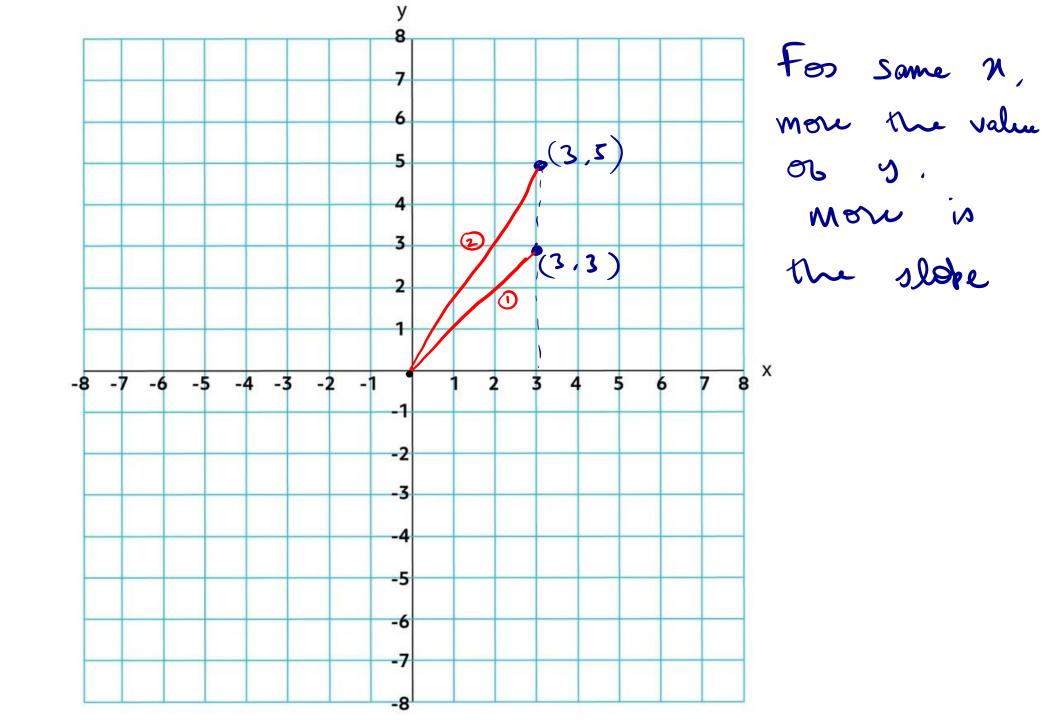
E N 100 km NS EW A (cha) 30°,43' N 76°,46' E Alope = 27 An 13°,23'N 65°,34'€ B



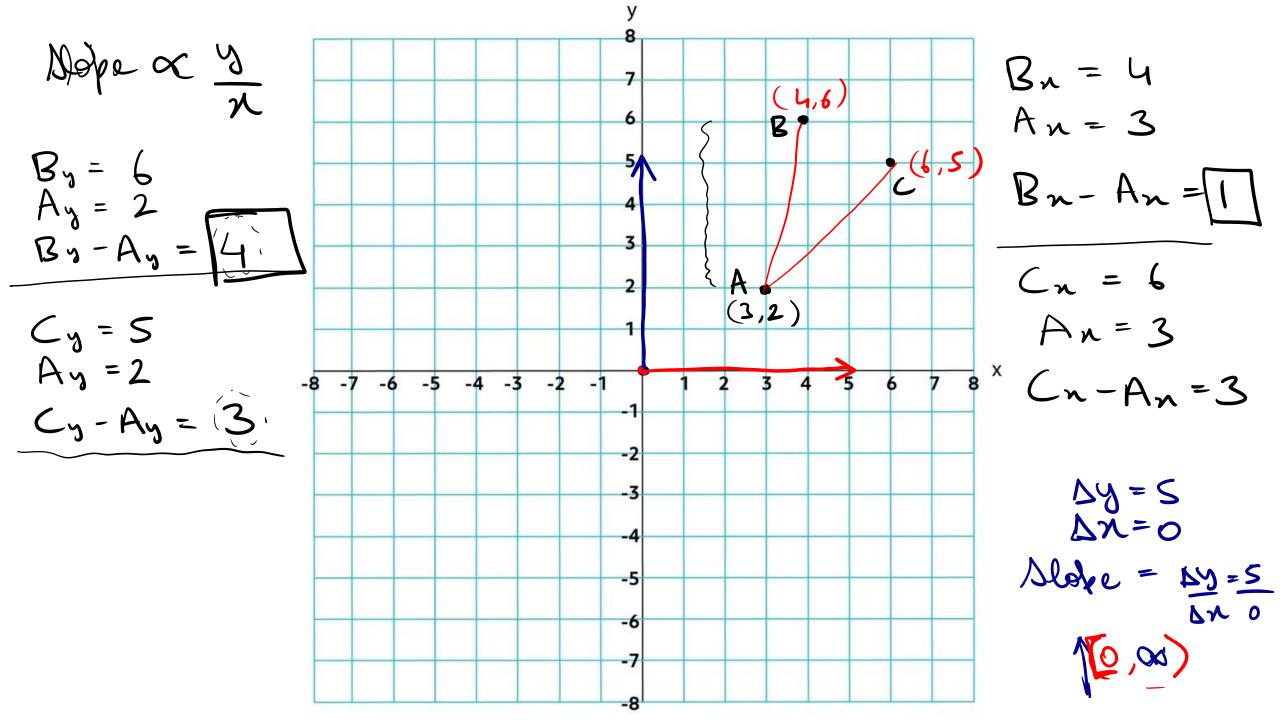








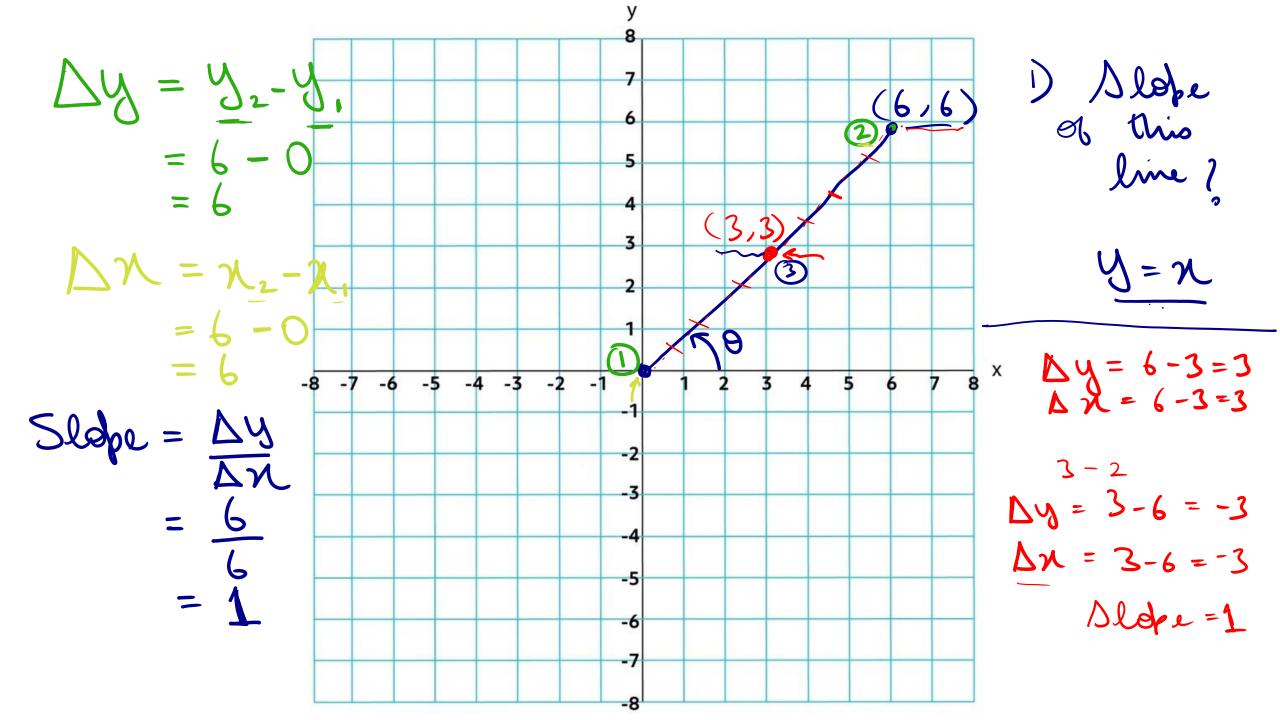
Slope sløpe 1 Sløpe $\propto \frac{1}{n}$

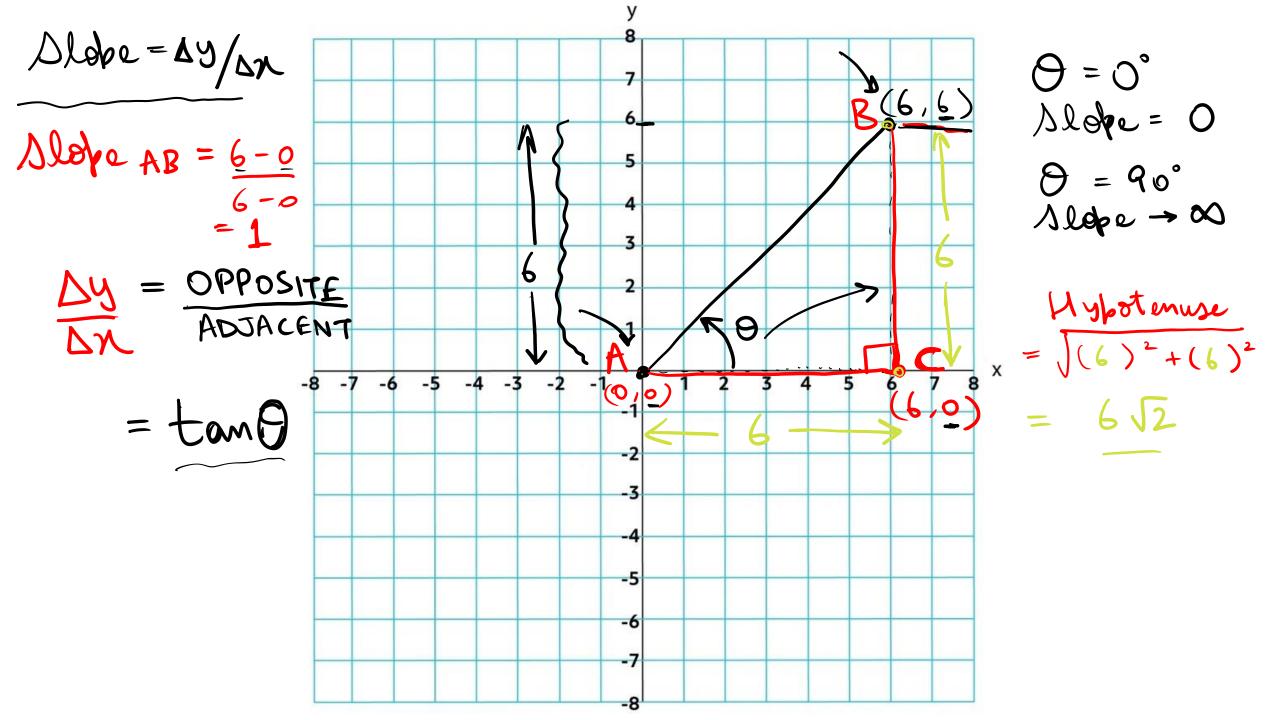


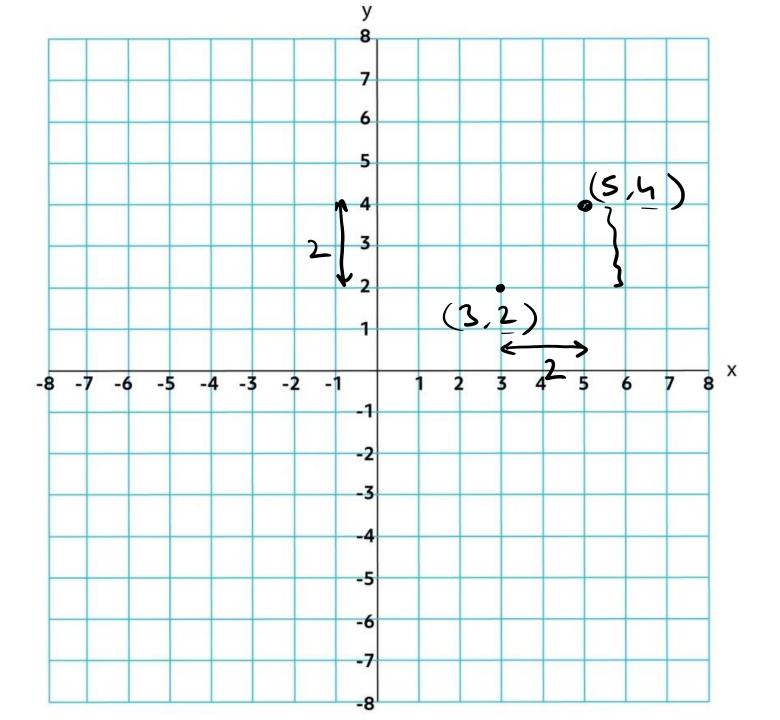
$$\Delta lope_{BA} = \left(\frac{\Delta Y}{\Delta X} \right) = \frac{4}{1} - \frac{4}{1}$$

$$\Delta lope_{AA} = \frac{\Delta Y}{\Delta X} = \frac{3}{3} = \frac{4}{1}$$

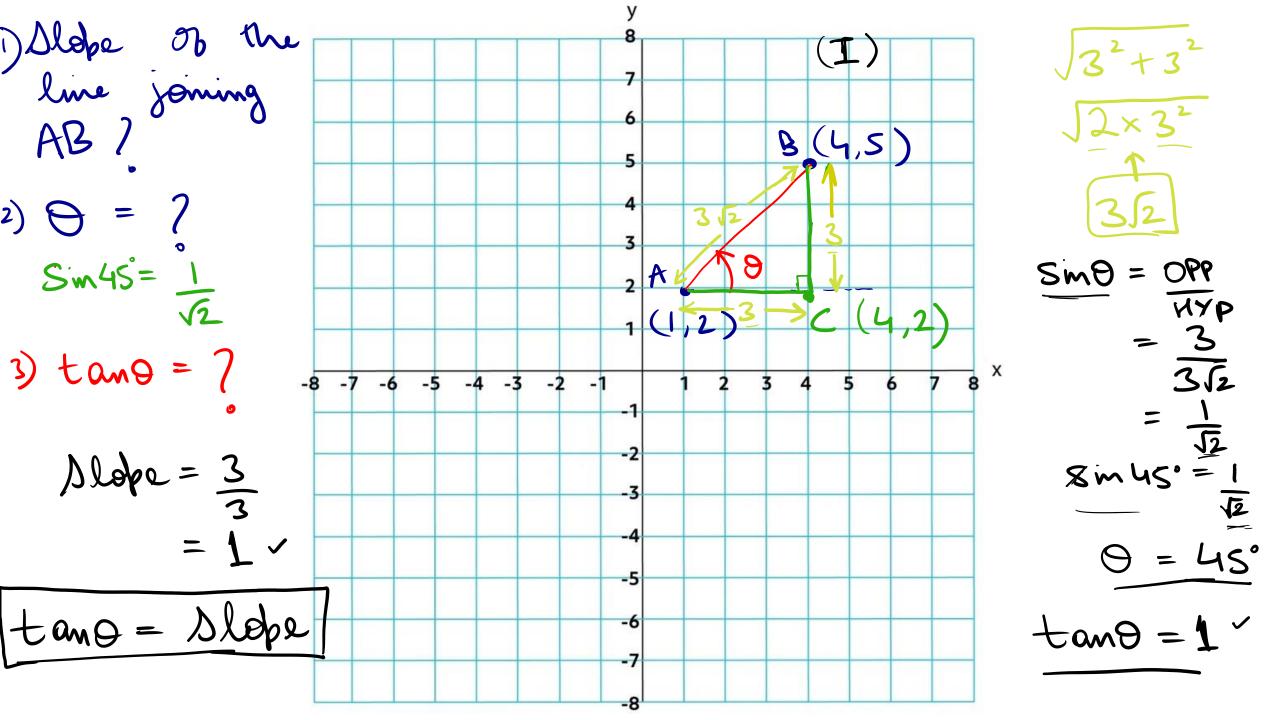
$$\sum_{\substack{s = 10\\ 0.5 \\ s = 100}} \sum_{\substack{s = 100\\ 0.5 \\ s =$$







4-2=2 S-3=2



Line - If I goin any 2 boints. I get à unique line Q-{3nd boint has to be on the} line joining those points.

HOMEWORK

Q) What is the value of tand ond tongo"? (HINT-Vou the definition of the slope of the line) (l) What is singo and Sino? Q3) What is (0290° and coro? Q4) what is tom 45°? b) Find sin45° and cos45°. Why are they equal? HINT - Construct a A on the caritesian system to Abproach problems 2-4.

