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Assignment 1

Keshav Roy

Download all python codes from

https://github.com/KeshavRoy/Distance

and latex-tikz codes from

https://github.com/KeshavRoy/Distance

1 Problem

- (1.3) Find the distance between the following pairs of points:
- (-3 -2) and (-6 7) the axes being inclined at 60 degree

2 Solution

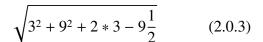
The distance b/w two points (x1, y1) and (x2, y2) is given as:

$$\sqrt{(X2-X1)^2 + (Y2-Y1)^2 + 2(X2-X1)(Y2-Y1)CO}$$
(2.0.1)

Given coordinates

$$(-3 -2) (-6 7)$$
 and $\theta = 60$

$$\sqrt{(-3-(-6))^2+(-2-7)^2+2(-3-6-(6))(-2-7)c\epsilon}$$
(2.0.2)



$$\sqrt{9 + 81 - 27} \tag{2.0.4}$$



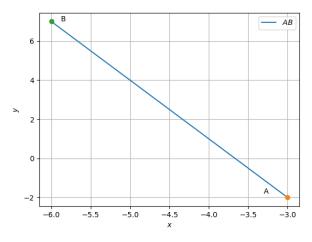


Fig. 0: triangle