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MATRIC NO: 19/ENG02/040

COURSE CODE: MAT 102

COURSE TITLE: GENERAL MATHEMATICS II

 SOLUTION TO ASSIGNMENT

1. A(6,-5),B(-2,1)&C(0,3)

DISTANCE AB=$\sqrt{\left(6+2\right)^{2}+\left(5+1\right)^{2}}=\sqrt{64+36}=10$

DISTANCE BC=$\sqrt{\left(0+2\right)^{2}+\left(3-1\right)^{2}}=\sqrt{8}$

DISTANCE CA=$\sqrt{\left(-5-3\right)^{2}+\left(6-0\right)^{2}}=\sqrt{100}=10$

AB=CA=10%BC=$\sqrt{8}$

SO IT IS AN ISOSCELES TRIANGLE

2a)$\frac{-4K+14}{K+1}=5$

-4K+14=5K+5

9K=9

K=1

RATIO=$^{1}/\_{1}$

b)$\frac{5K-4}{K+1}=14$

14K-5K=-4-14

K=$^{28}/\_{9}$

RATIO=28/9