

## Sample Paper Answers

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### Question 2

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A ) \* See graph

B) i)  $AB (-1, -6)$  ,  $AC (-4, -2)$  ,  $BC (-3, 4)$

ii)  $AB = 6.083$ ,  $AC = 4.472$  ,  $BC = 5$

iii) No because the dot product of the combinations of vectors does not equal 0

iv) 16

v) 1.017 Rads or 58.26 Degrees

C) ( 3.15, 5.46 )

D)  $-4i + 16k + 16j$

E) i)  $3^{-2}$

ii )  $3^{-1/2}$

iii)  $2^4$

F) i) -0.5

ii) 8

iii) Not possible, no power can make a positive number negative