(No calculator) You may use your notebook, you must show all details.

Pre-Calc and College math quiz is on page 2

Question 1

Evaluate without using a calculator:

a) 3Sin 30⁰ =

b) 5cos 30⁰ =

c) 2tan (2π/3) =

d) $2 \cos \frac{3\pi}{4} + 6 \tan(-\frac{\pi}{6})$

Question 2:

Write the following angles in Radians form: (Leave your answer with π)

1) 135⁰ =_____

Question 3

For the given Special Right triangle, label the two missing sides and evaluate the trigonometric ratios below, leave answers in exact form;
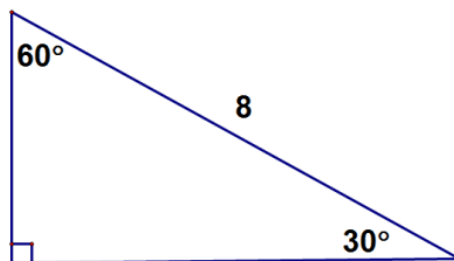
Sin 60⁰ =   Cot 60⁰ =

Cos 60⁰ =   Csc 60⁰ =

Tan 60⁰ =   Sec 60⁰ =

PC and CP Week 26 Friday Quiz

(No calculator) You may use your notebook, you must show all details.

Question 1

Write the partial Fraction decomposition of the rational expression below:

$$\frac{4x^2 - 6x + 7}{(x + 1)(2x + 3)(4x - 1)}$$

Question 2

Evaluate the cross product of the vectors below using minor determinants, also determine the angle (θ) between the two vectors, leave your answer in **arc-cos** form. (No calculators):

U = 3**i** – 5**j** + 4**k**   and   **V** = - 4**i** + 6**j** + 2**k**

   a)   **U** x **V** =

   b)   **V** x **U** =

   c)   θ =