Wehelp Assignment week 1 - 邱宇軒

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Task 1, If 2 non zero vectors fullfill x = ty, then these 2 vectors are parellel
    1-1 (-2,1,3)-3(4,6,1)= (-14,-17,0) & not parellel
    1-2 (-3,-6)+3(1,2) = (0,0) => parelle|
    1-3 (3,0,2,-5)-3(1,-2,0,1)=(0,-6,2,2)=) not parelle
    1-4 (10,0,2,4,8)-2(5,0,1,-2,-4)=(0,0,0,0,0)=) parelle)
Task 2. the equation of plane containing 3 point (A,B,c) is \alpha=A+s(B-A)+t(c-A)
          if these 3 paints are not collinear (all parellel)
      2-1. (2,-5,-1)+5(0-2,4-(-5),6-(-1))++(-3-2,7-(-5),1-(-1)
         > X=(2,-5,-1)+5(-2,9,7)+t(-5,12,2)
      2-2. these 3 point don't define a plane.
(1) (2,4,2)-2(1,2,1)=(0,0,0)
(2) (3,-6,-3)+3(1,2,1)=(0,0,0) ) all parellel
           (3)3(2,4,2)+2(-3,-6,-3)=(0,0,0)
       2-3. 8=(1,1,1)+5(2-1,5-1,2-1)++(0-1,0-1,0-1)
         > x=(1,1,1)+5(1,4,1)++(-1,-1,-1)
          ) X= S(1,4,1)+t(-1,-1,-1)
   Task 3.
       3-1. [00000]
       3-2. if Nis the field of natural number, which means
             P(N) court contain the coefficient like 0.5 (not natural number)
             so f diesn't belong to P(N)
     Task4
        4-1. False, if f(x)=X+1 > degree 1
                       g(x)=-X+100 > degree 1
                      f(x)+g(x)=x+1+(-x)+100=101 =) degree 0
        4-2. True
        4-3, Falce, if X=(1,1), Y=(1,0), Q=0
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=) ax = ay=(0,0), but x = y