Answer on Question #44602 - Math - Algebra

x+y=2 2y+5z=7 3x-2z=1

Solution

Find y from the second equation of the system:

y=(7-5z)/2

Find x from the third equation of the system:

x=(1+2z)/3

Rewrite the first equation of the system:

(1+2z)/3+(7-5z)/2=2

Multiply left-hand and right-hand sides by 6:

2(1+2z)+3(7-5z)=12

2+4z+21-15z=12

-11z=-11

z=1

Find y from the second equation of the system:

2y+5=7

2y=2

y=1

Find x from the first equation of the system:

x+1=2

x=1

Answer: (1;1;1).

www.AssignmentExpert.com