Answer on Question #46909 - Math – Set Theory

Let U = {a,b,c,d,e,f,g}, X={a,c,e,g}, Y={a,b,c}, and Z={b,c,d,e,f}

1.2.1 Find Y n Z

1.2.2 Find Y U Z

1.2.3 Find X – Y

1.2.4 Find X x Y

Solution.

1.2.1 Y n Z = {b, c}.

1.2.2 Y U Z = {a, b, c, d, e, f}.

1.2.3 X – Y = {e, g}.

1.2.4 X x Y = {(a, a), (a, b), (a, c), (c, a), (c, b), (c, c), (e, a), (e, b), (e, c), (g, a), (g, b), (g, c)}.