



Zombie Apocalypse Now

The zombies are after us! Thankfully, Mrs. Harvey has been anticipating this for some time, and has set up six safe houses in Saskatchewan. She sends out Carter, Stefan, Kaelyn, Abby, Turner, and Dakota to check on the safety and infection status of the houses. Stefan, Kaelyn, Abby, Turner, and Dakota do not report back. It can only be assumed that the houses they went to are compromised and they are dead. Carter is our only hope. We know that he is at Spruce Cabin.

But dang it, Mrs. Harvey doesn't remember the code names for the cabins, so Carter has to give directions to the group to join him. Carter realizes that the zombies can listen in so he can't give traditional directions without the zombies finding the house. He does know, as anyone who knows anything about zombies knows, that the virus prevents them from understanding basic math principles like Linear Functions. In order to make it to the safe house and prevent Zombies from finding it, Carter relays the following messages about where the others were headed.

Message #1 – Stefan was headed to Oak Cabin North of $5y = -2x + 70$.

Message # 2 – Kaelyn was sent to Cedar Cabin South of $3y - x = -39$.

Message # 3 – Abby checked out Maple Cabin North of $2x + 3y = 3$.

Message # 4 – Turner sprinted towards Fir Cabin East of $-7x + y + 7 = 0$.

Message # 5 – Dakota reluctantly hiked to Pine Cabin West of $y = 12x + 72$

At first, you panic! But then Mrs. Harvey reminds you that you can just use what you already know.

$$y = mx + b \quad b = y\text{-intercept} \quad m = \text{slope}$$

or

make a table of values

Using the map attached, Identify each of the cabin by code name and find the safe house!



