1. Verify that the following are solutions for all value of s and t

$x = 19t - 35$
$y = 25 - 13t$ is a solution of
$z = t$

$2x + 3y + z = 5$
$5x + 7y - 4z = 0$

2. A zookeeper wants to give an animal 42 mg of vitamin A and 65 mg of vitamin D per day. He has two supplements: the first contains 10% vitamin A and 25% vitamin D. The second contains 20% vitamin A and 25% vitamin D. Formulate this problem as a system of linear equations!