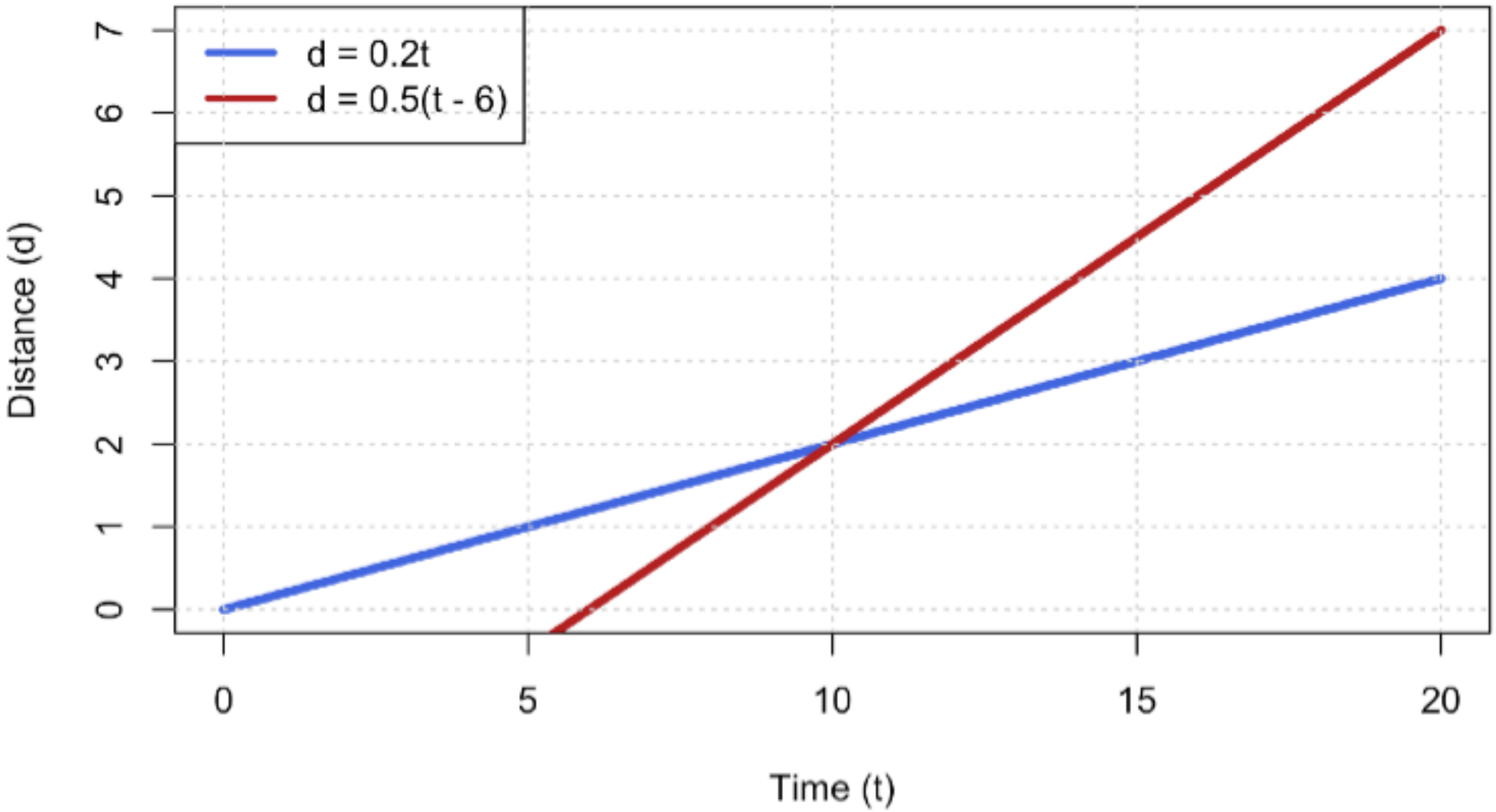
system of linear equations

system of linear equations

example


d = 0.2t
d = 0.5(t - 6)
Distance (d)
0
1
2
3
4
5
6
7
0
5
10
15
20
Time (t)

system of linear equations

- A system of linear equations is when we have two or more linear equations working together
- For the equations to "work together" they share one or more variables

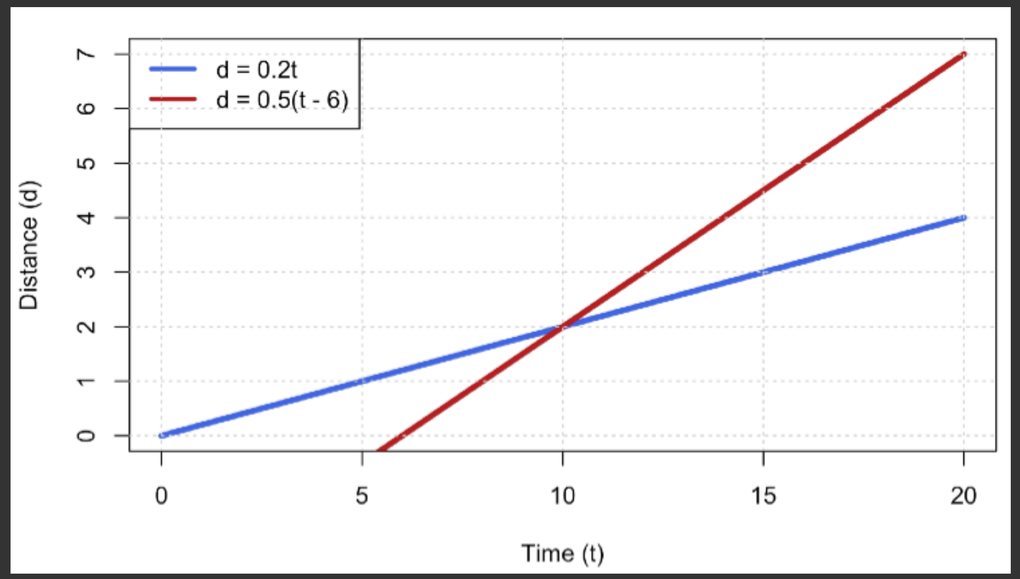
example

It's a race between you and a horse. You can run 0.2 km every minute. The horse can run 0.5 km every minute. But it takes 6 minutes to saddle the horse. Let d denote distance and t denote time.

We have a system of equations (that are linear):

$$d = 0.2t$$
$$d = 0.5(t - 6)$$

Where do you get caught?



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