Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	27 October 2022
Team ID	PNT2022TMID38617
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation;

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	M.VIGNESH A. SRIAKASH
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	S. SHYAM KUMAR A. VASUDEVAN
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	2	Low	M.VIGNESH A. SRIAKASH
Sprint-1	Designation of Region	USN-4	As a user, I can collect the dataset and select the region of interest to be monitored and analysed.	3	Medium	S. SHYAM KUMAR A. VASUDEVAN
Sprint-2	Algorithm selection	USN-5	As a user, I can choose the required algorithm for specific analysis.	7	Medium	M.VIGNESH A. SRIAKASH
Sprint-2	Training and Testing	USN-6	As a user, I can train and test the model using the algorithm.	7	Medium	S. SHYAM KUMAR A. VASUDEVAN
Sprint-3	Prediction and analysis of data	USN-7	As a user, I can predict and visualise the data effectively.	10	High	M.VIGNESH A. SRIAKASH

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Model building	USN-8	As a user, I can build with the web application	10	High	M.VIGNESH A. SRIAKASH
Sprint-4	Report generation	USN-9	As a user, I can generate detailed report on product data analysis	10	High	S. SHYAM KUMAR A. VASUDEVAN
Sprint-4	Model deployment	USN-10	As an administrator, I can maintain third party services.	5	Low	M.VIGNESH A. VASUDEVAN

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	15	6 Days	24 Oct 2022	29 Oct 2022	15	30 Oct 2022
Sprint-2	14	6 Days	31 Oct 2022	05 Nov 2022	14	06 N0v 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	08 Nov 2022
Sprint-4	15	6 Days	14 Nov 2022	19 Nov 2022	15	20 Nov 2022

Velocity:

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

For sprint-1 the average velocity (AV) is:

AV=Sprint Duration / velocity= 15/6 = 2.5

For sprint-2 the average velocity (AV) is:

AV=Sprint Duration / velocity= 14/6 = 2.33

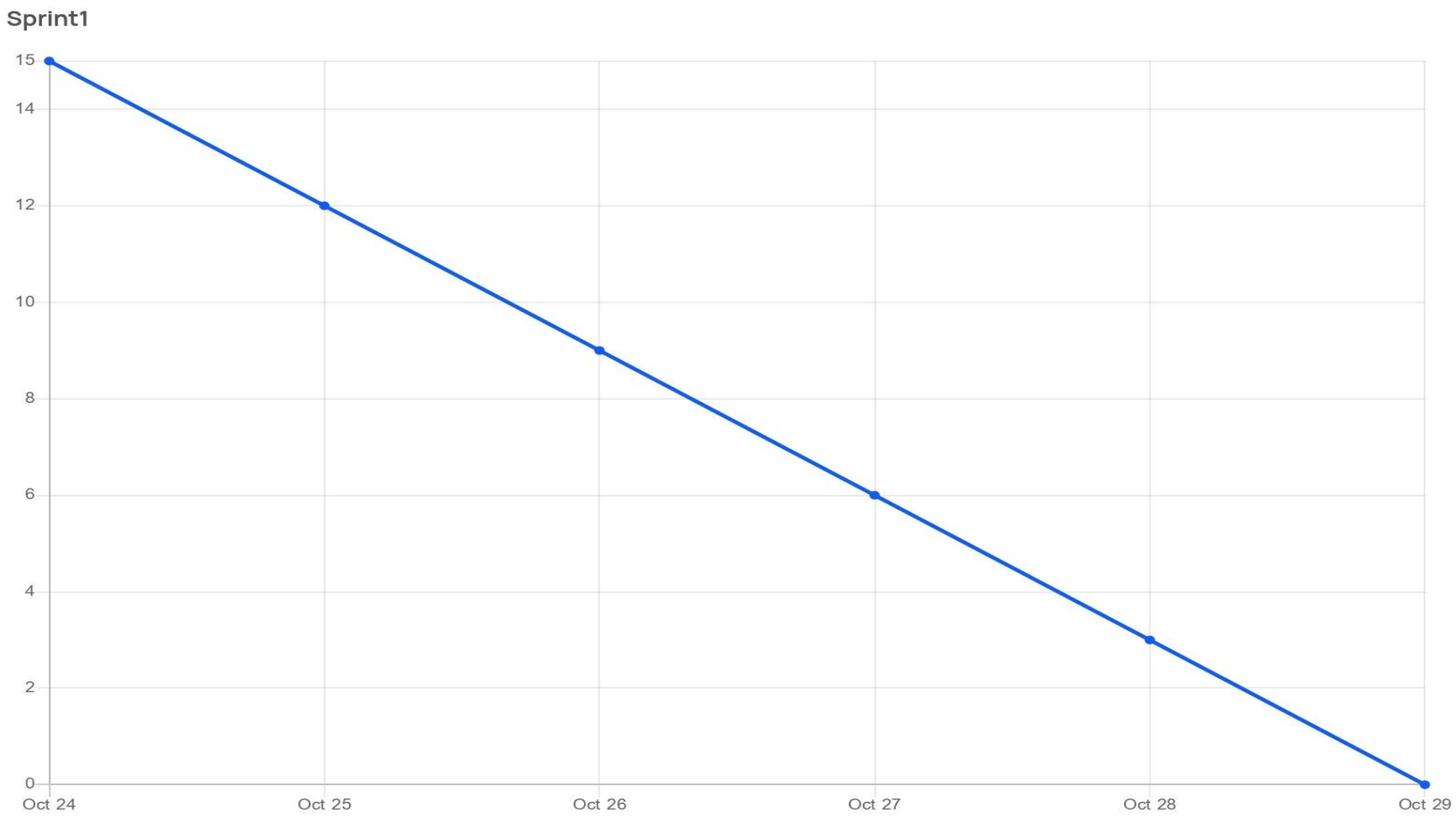
For sprint-3 the average velocity (AV) is:

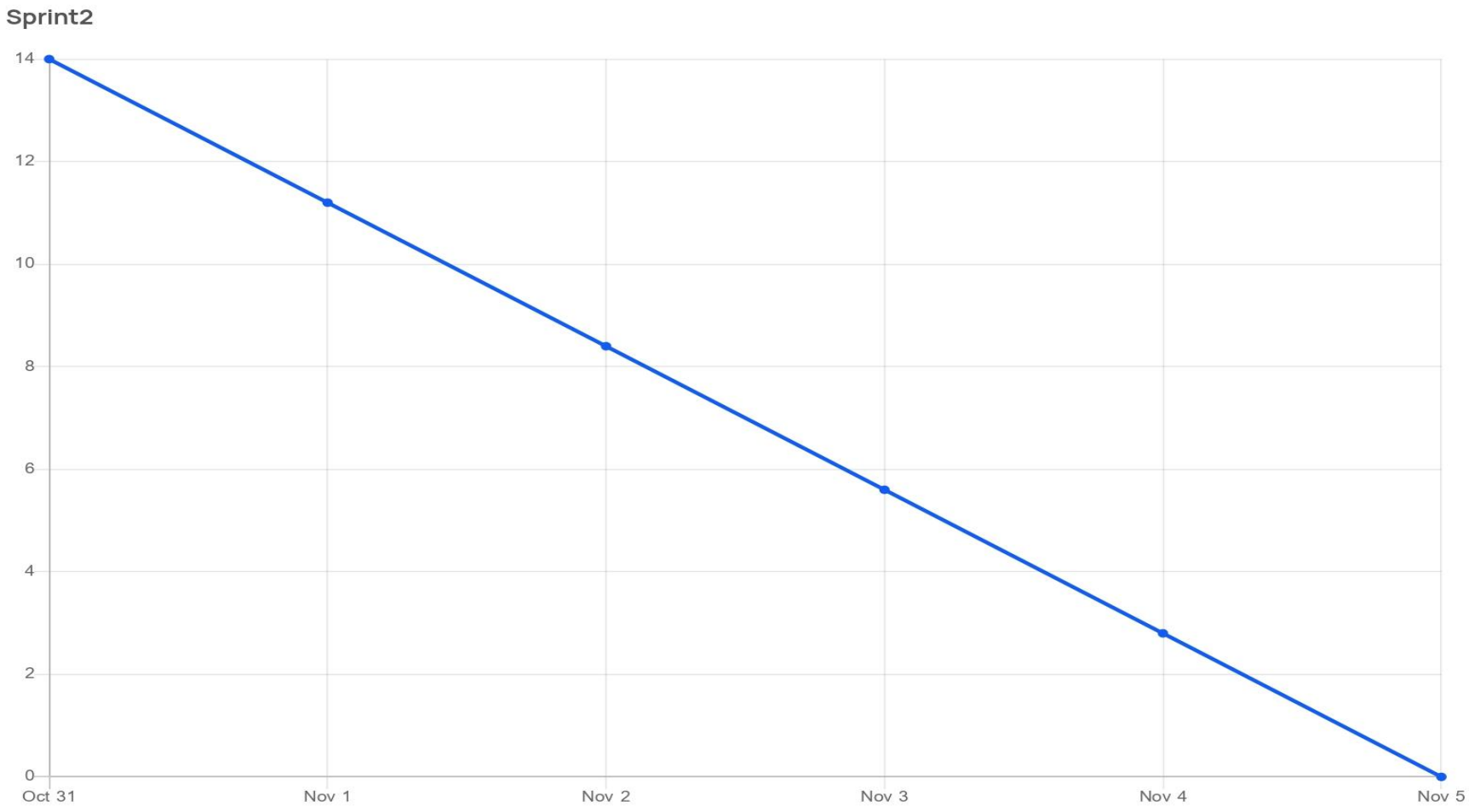
AV=Sprint Duration / velocity= 20/6 = 3.3

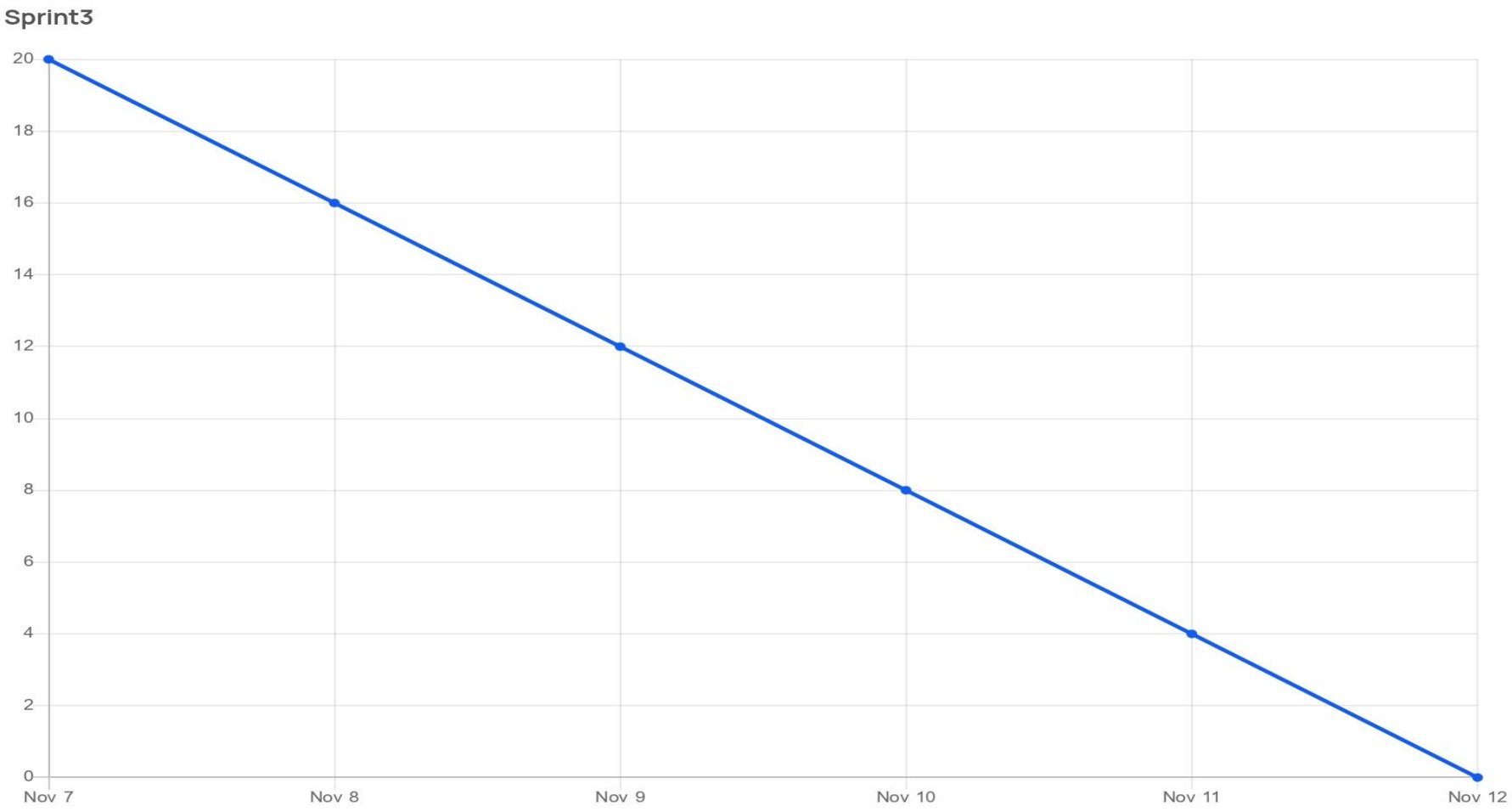
For sprint-4 the average velocity (AV) is:

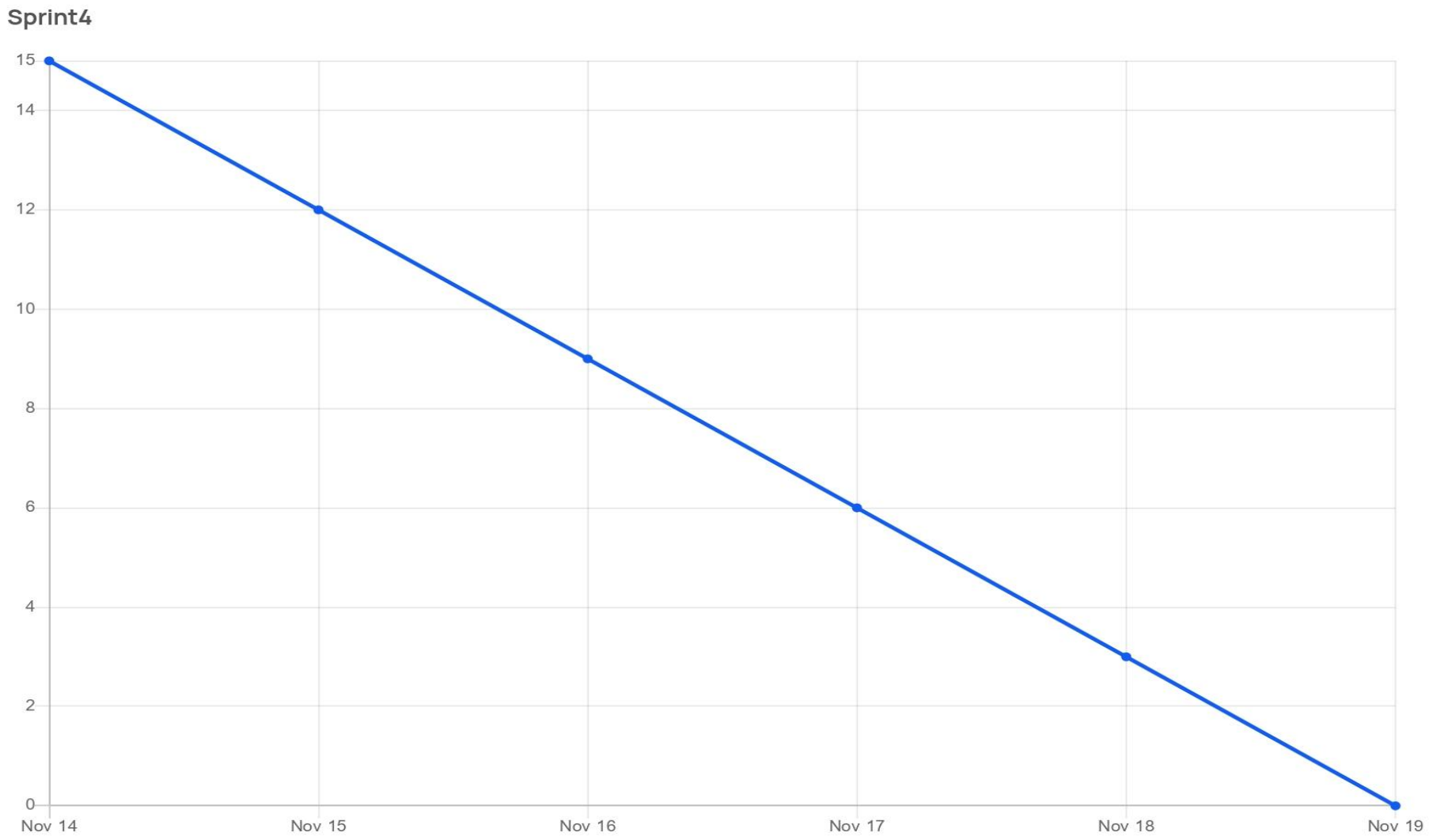
AV=Sprint Duration / velocity= 15/6 = 2.5

Burndown Chart:




Sprint2
14
12
10
8
6
4
2
0
Oct 31
Nov 1
Nov 2
Nov 3
Nov 4
Nov 5


Sprint3
20
18
16
14
12
10
8
6
4
2
0
Nov 7
Nov 8
Nov 9
Nov 10
Nov 11
Nov 12


Sprint4
15
14
12
10
8
6
4
2
0
Nov 14
Nov 15
Nov 16
Nov 17
Nov 18
Nov 19