Rates of change

Name _____ Date _____

1. $s(t) = t^3 + 9t^2 + 7t - 5$ is a position. Velocity at $t = 5$ → _____

2. $s(t) = 3t^3 - 2t^2 + 5$ is a position. Velocity at $t = 2$ → _____

3. $s(t) = -2t^3 + 5t^2 + 2t + 7$ is a position. Velocity at $t = 2$ → _____

4. $s(t) = 3t^3 - 5t^2 + 3t - 3$ is a position. Velocity at $t = 2$ → _____

5. $s(t) = 3t^3 + 5t^2 - 8t - 5$ is a position. Velocity at $t = 5$ → _____

6. $s(t) = t^3 + 9t^2 - 7t$ is a position. Velocity at $t = 5$ → _____

7. $s(t) = t^3 - 9t^2 + 8t + 4$ is a position. Velocity at $t = 4$ → _____

8. $s(t) = t^3 + 8t^2 - 9t + 2$ is a position. Velocity at $t = 4$ → _____

9. $s(t) = 2t^3 + 5t^2 + 8t + 6$ is a position. Velocity at $t = 2$ → _____

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10. $s(t) = 3t^3 - 4t^2 + 6t + 2$ is a position. Velocity at $t = 1$ → _____

11. $s(t) = -t^3 + 9t^2 - 4t - 9$ is a position. Velocity at $t = 5$ → _____

12. $s(t) = -t^3 + 2t^2 + 2t - 5$ is a position. Velocity at $t = 2$ → _____

13. $s(t) = 3t^3 + 3t^2 - 7t - 3$ is a position. Velocity at $t = 3$ → _____

14. $s(t) = -t^3 - 5t^2 - 5t - 5$ is a position. Velocity at $t = 1$ → _____

15. $s(t) = -t^3 + 4t + 4$ is a position. Velocity at $t = 4$ → _____

16. $s(t) = 2t^3 - 6t^2 + 9t$ is a position. Velocity at $t = 2$ → _____

17. $s(t) = -t^3 + 7t^2 - 3t - 2$ is a position. Velocity at $t = 2$ → _____

18. $s(t) = -t^3 + 2t^2 - t - 3$ is a position. Velocity at $t = 4$ → _____