

Connect Your Representations

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This constructed model holds for 0 to 4 minutes: an empty tank gains 2.5 liters each minute. Let x be time and y be total water.

x (minutes)	y (liters)
0	0
1	2.5
2	5
4	10

Explain why y is proportional to x . Use positive-input quotients and the zero pair. Write a rule and name k with units. Explain the point at one minute. Find the total at 3 minutes. Is a reading at 6 minutes guaranteed by this stated model? Explain the domain limit.

Table, rule, point, prediction and limit