

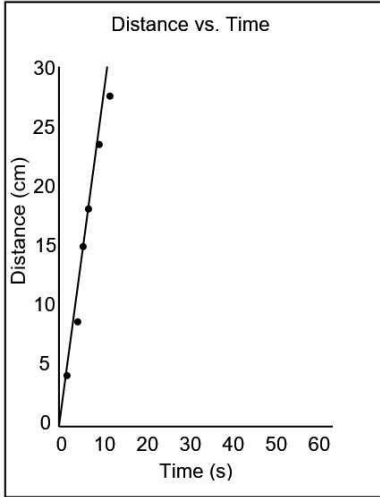


What's Wrong with These Graphs?

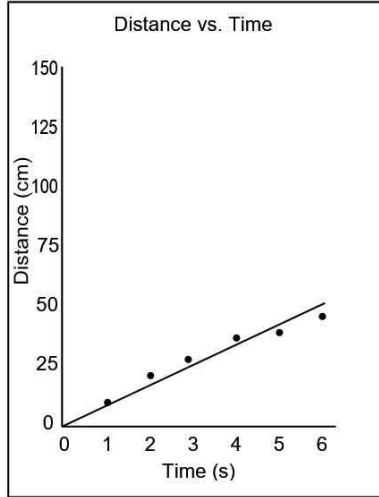
EXERCISES

A. What's wrong with these graphs?

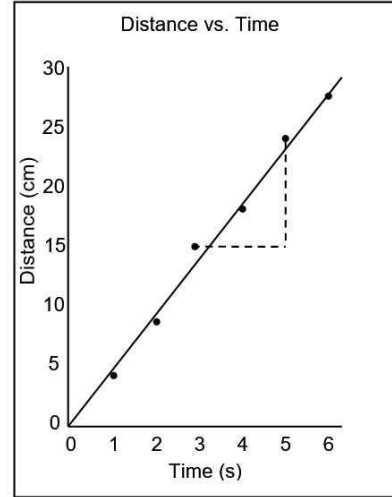
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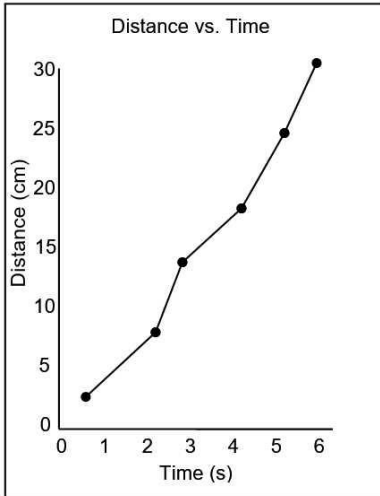
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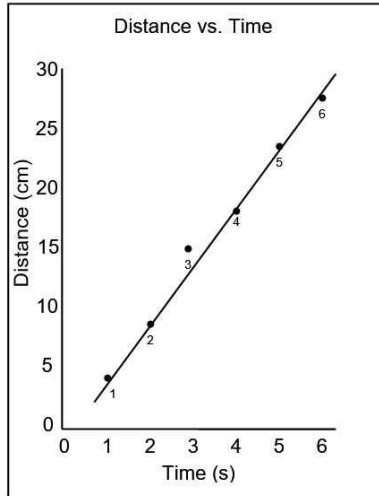
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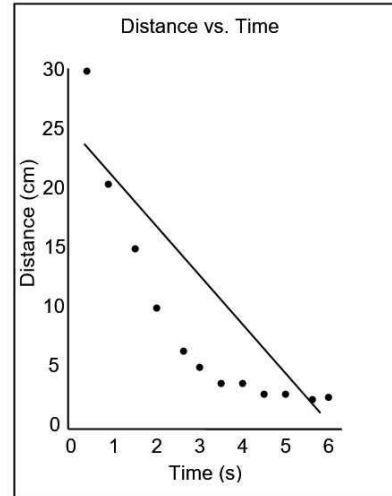
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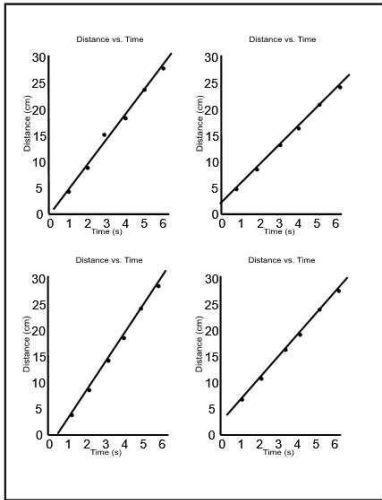
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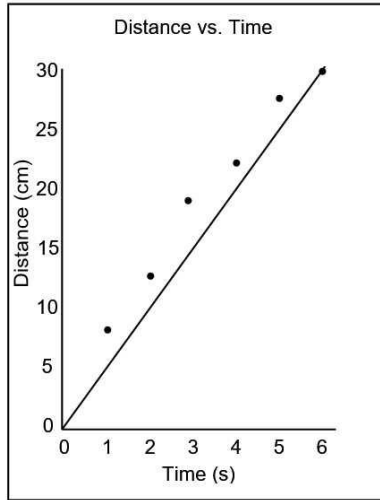
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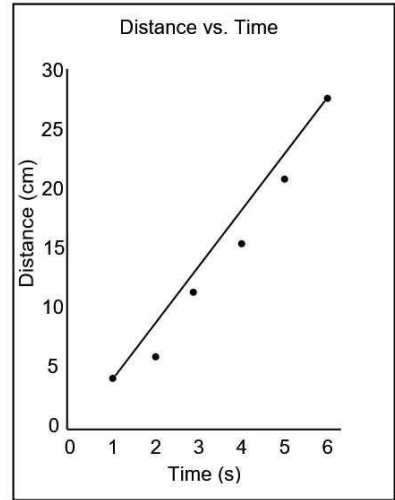
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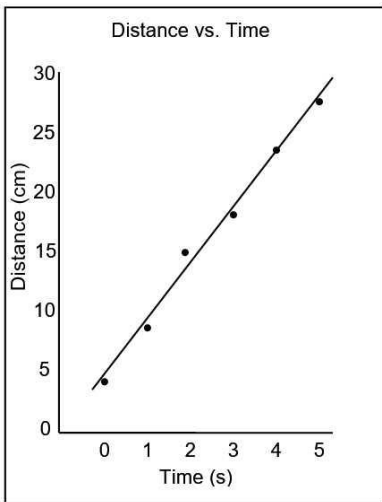
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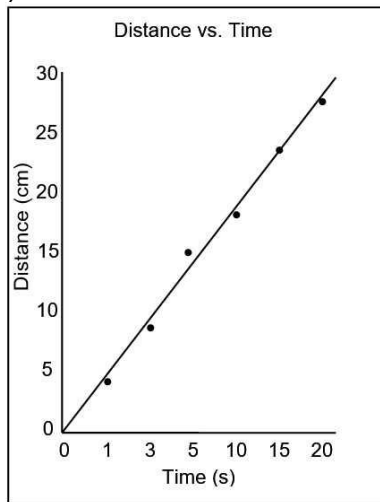
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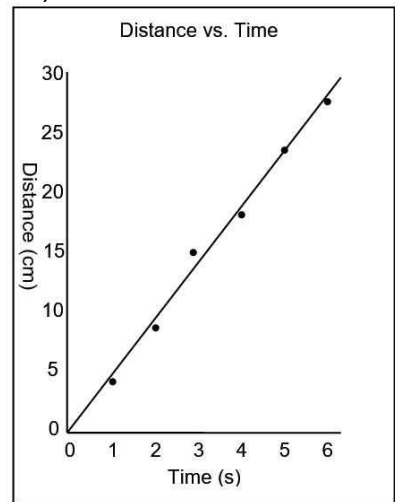
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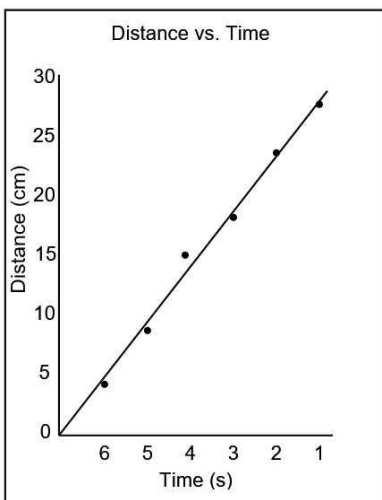
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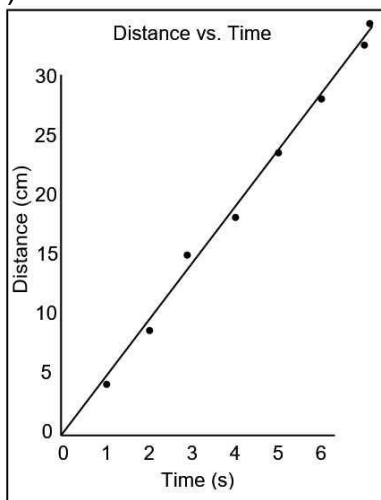
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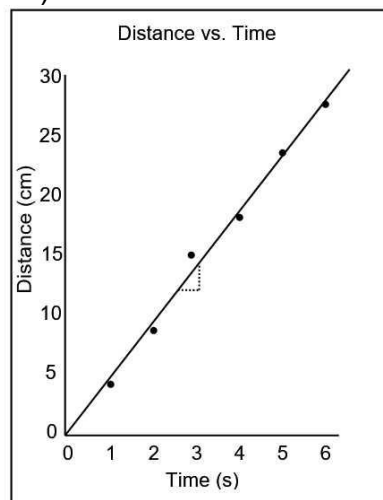
13)



14)



15)



SOLUTIONS

- A. (1) Poor choice of x-scale.
 (2) Poor choice of y-scale.
 (3) The slope should be calculated from point on the line, not data points.
 (4) If the data points suggest a straight line, draw a line of best fit. Never connect the dots.
 (5) Data points should not be labelled.
 (6) Data points do not suggest a straight line — don't force them. Draw the best curve.
 (7) Each graph should be on a separate page.
 (8) Data points don't suggest a line through origin — don't force it.
 (9) Don't connect the first point to the last point — find a line of best fit.
 (10) If the scales include 0, the zeroes should be where the axes meet.
 (11) Horizontal scale should not change.
 (12) The label on the vertical axis is backwards.
 (13) Horizontal scale should increase, not decrease.
 (14) Rescale the graph so the points fit on the page better.
 (15) The slope triangle should be a reasonable size, not this small.

