

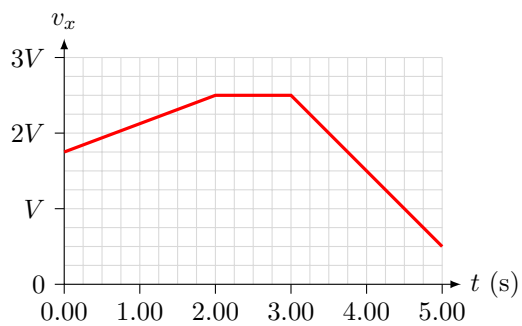
A.

B.

C.

D.

E.



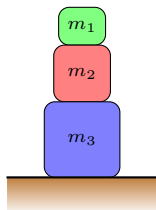
A. 1, 2, 2

B. 1, 2, 3

C. 2, 3, 3



D. 2, 3, 4

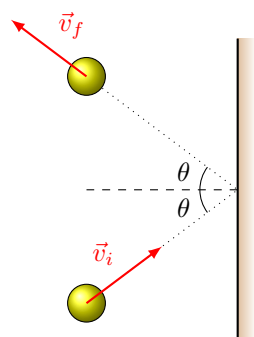
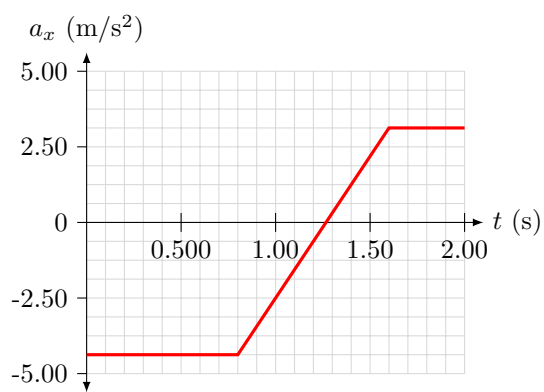
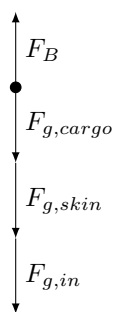
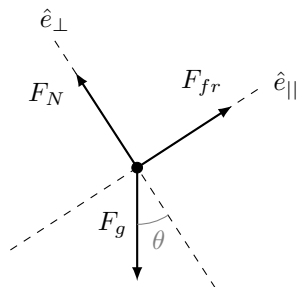
E. 3, 3, 3

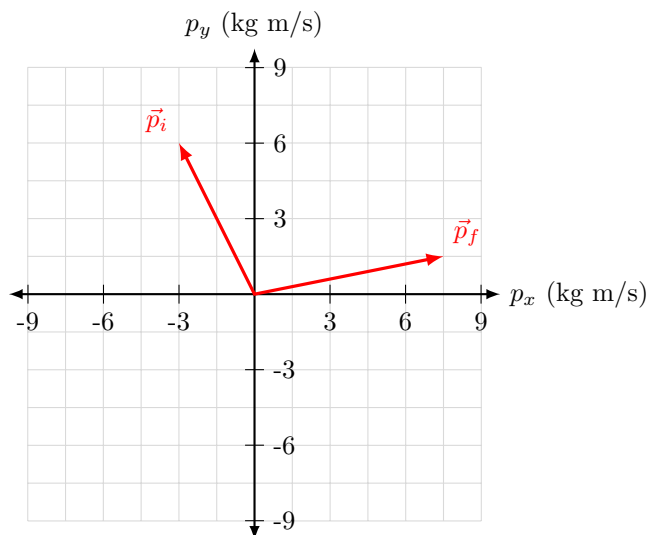


A. \leftarrow

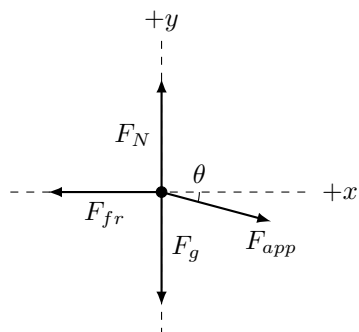
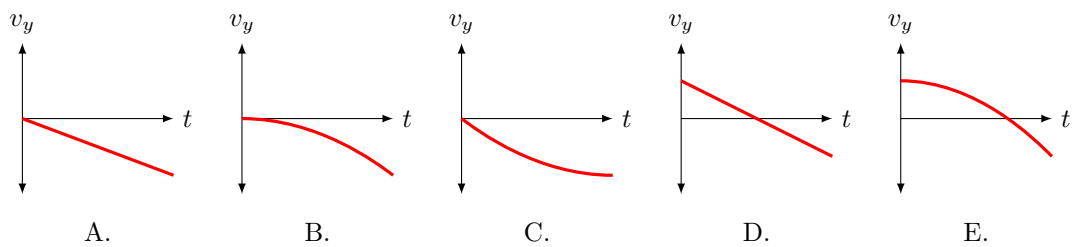
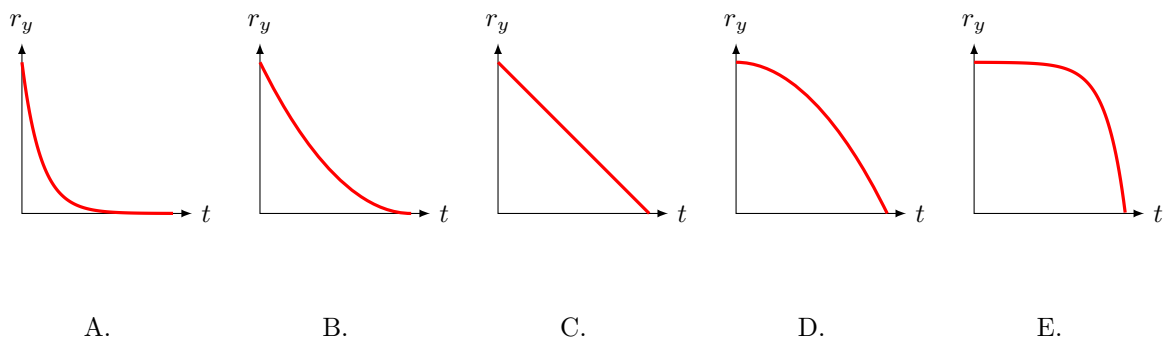
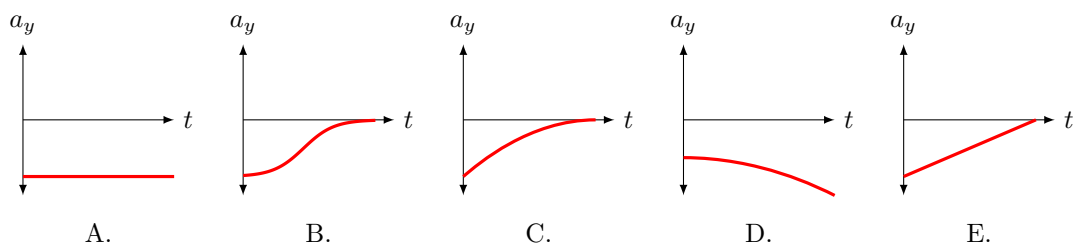
B. \downarrow

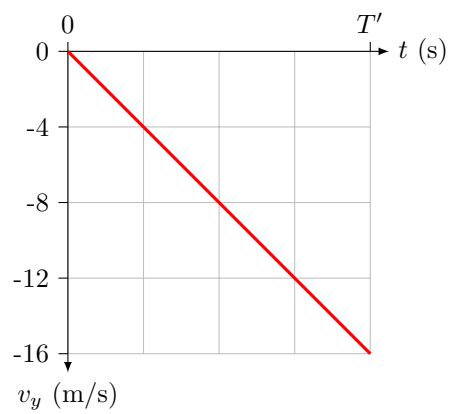
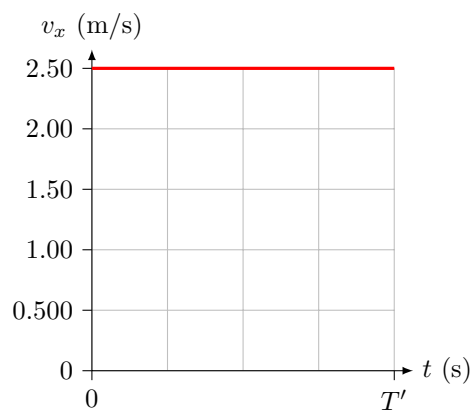
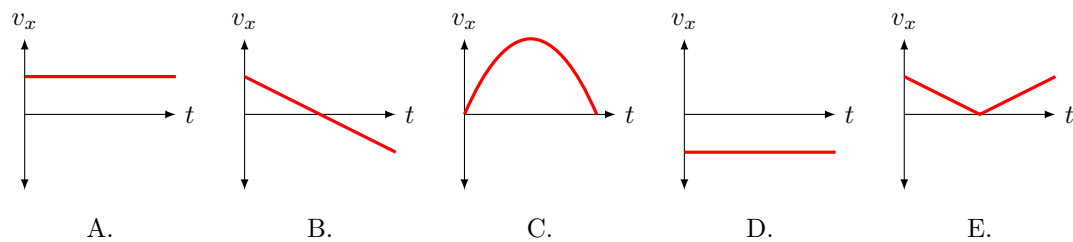
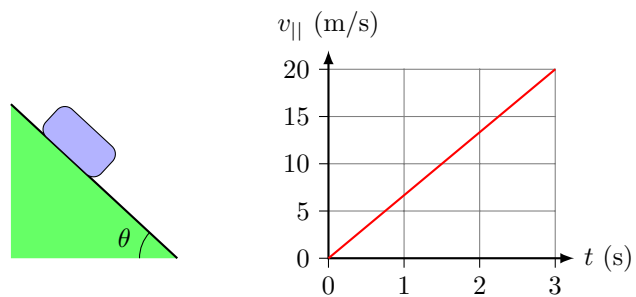
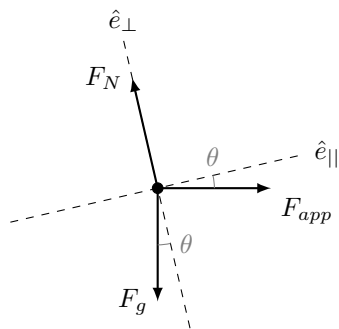
- C. 
- D. 
- E. zero \vec{F}

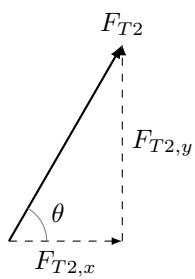
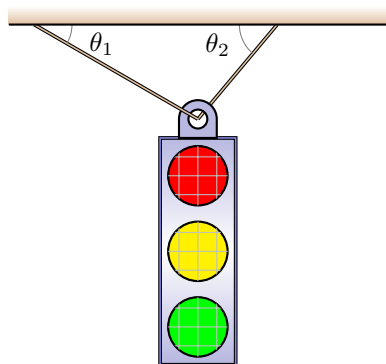
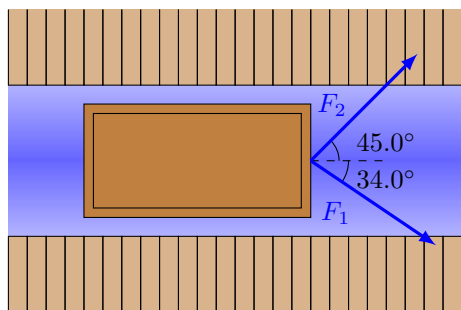
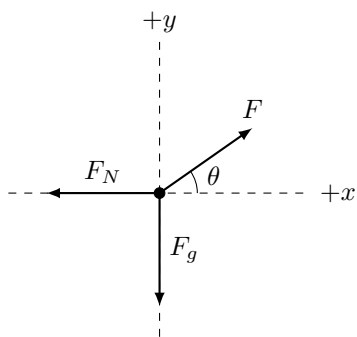
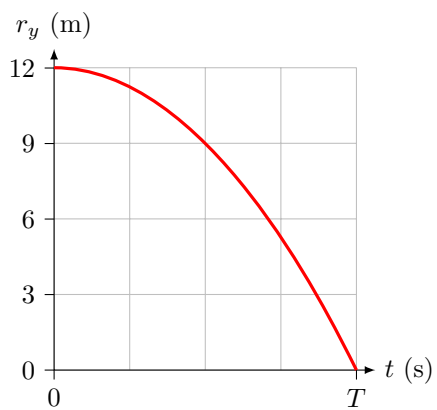
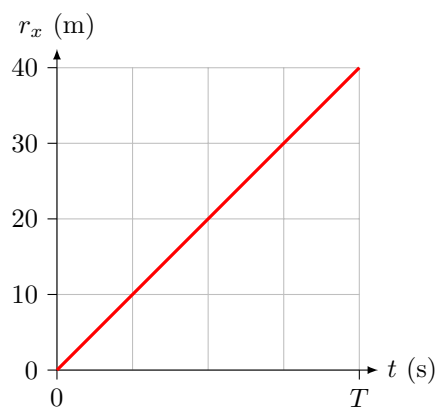


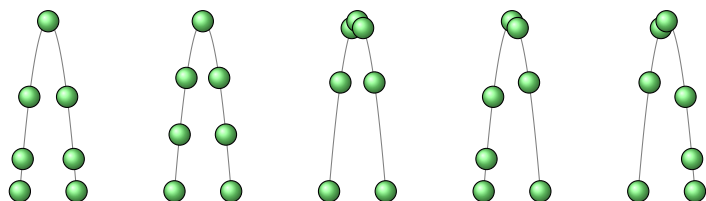
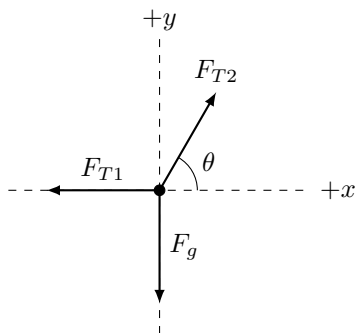


- A. $(-3.50 \text{ kg m/s})\hat{x} + (1.50 \text{ kg m/s})\hat{y}$
- B. $(-3.00 \text{ kg m/s})\hat{x} + (6.00 \text{ kg m/s})\hat{y}$
- C. $(3.50 \text{ kg m/s})\hat{x} + (-1.50 \text{ kg m/s})\hat{y}$
- D. $(7.50 \text{ kg m/s})\hat{x} + (1.50 \text{ kg m/s})\hat{y}$
- E. $(10.5 \text{ kg m/s})\hat{x} + (-4.50 \text{ kg m/s})\hat{y}$









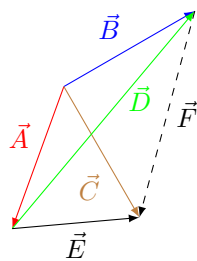
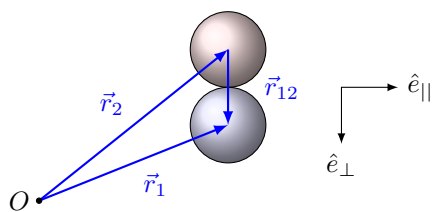
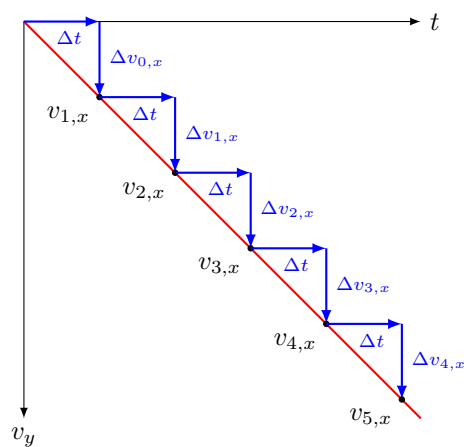
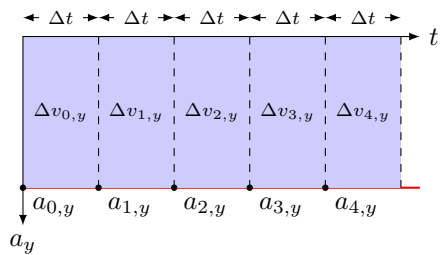
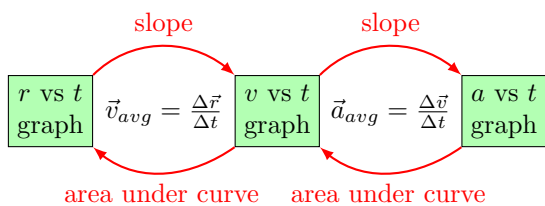
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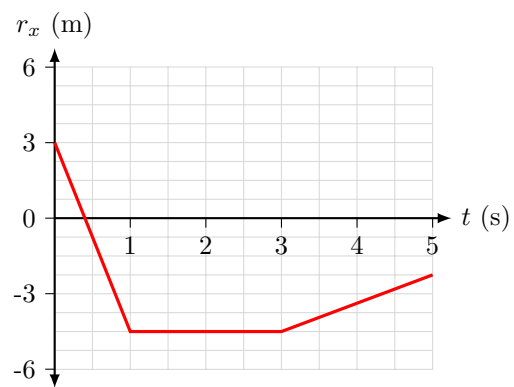
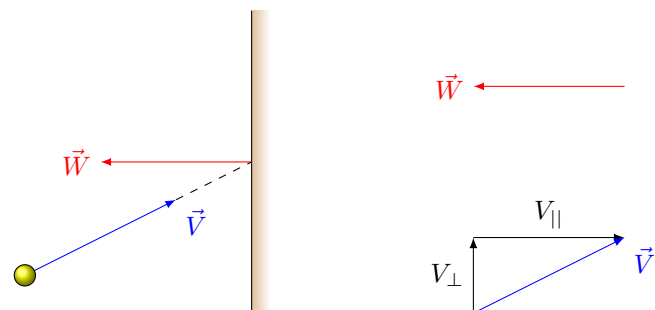
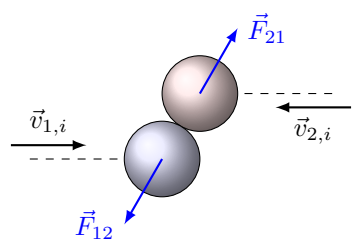
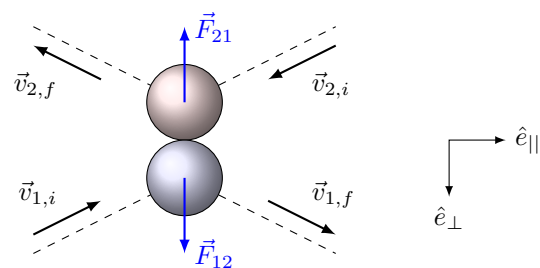
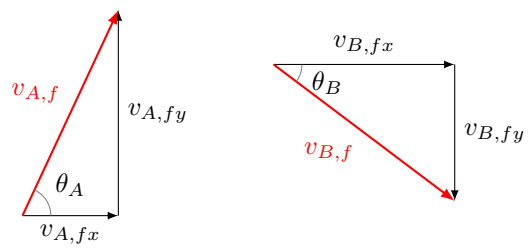
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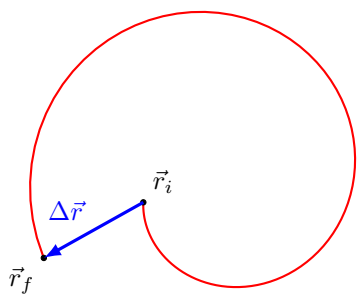
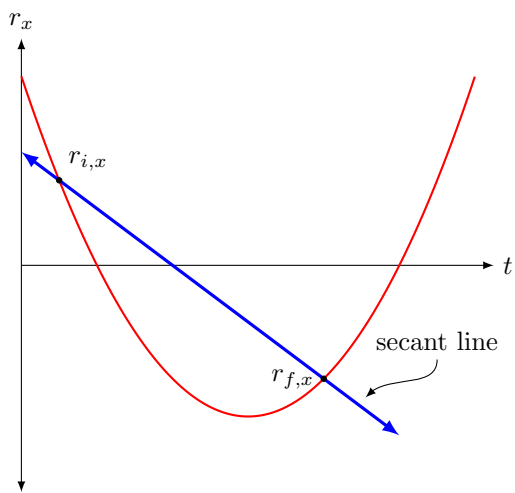
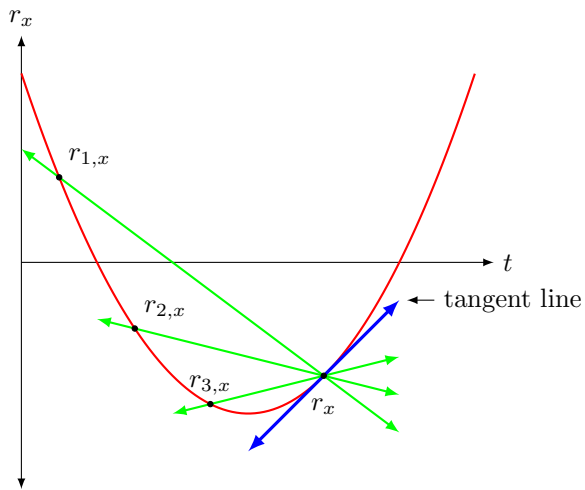
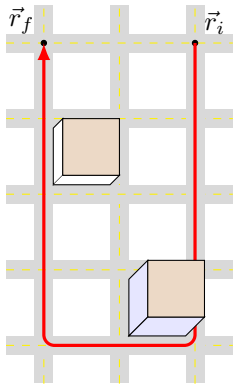
C.

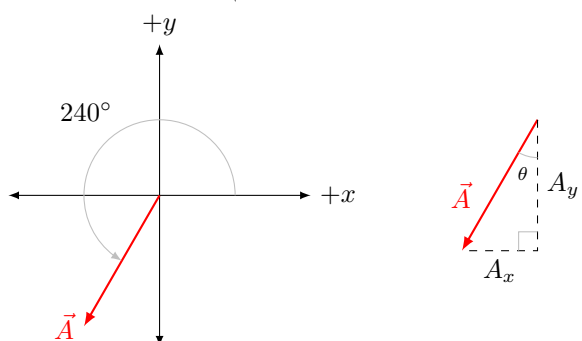
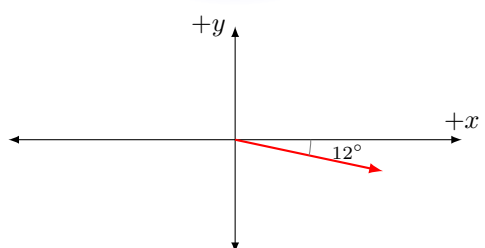
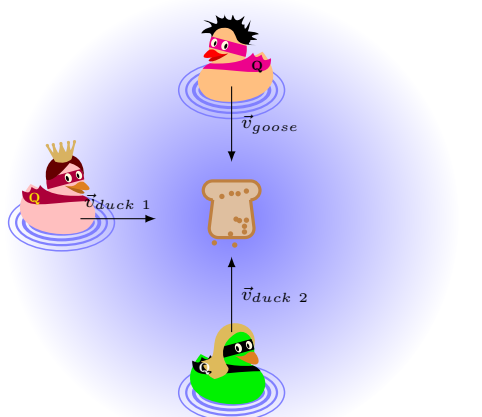
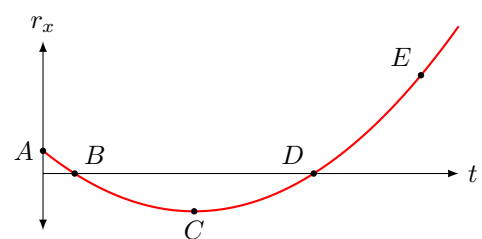
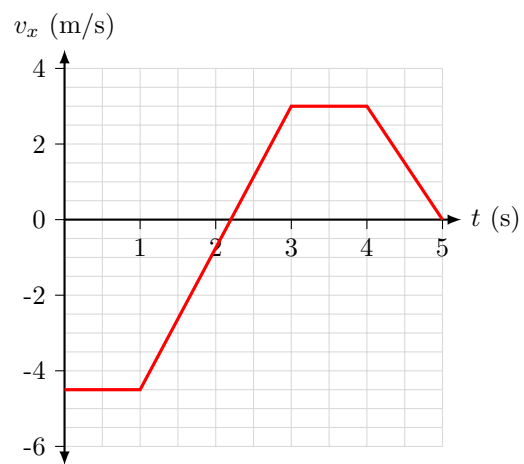
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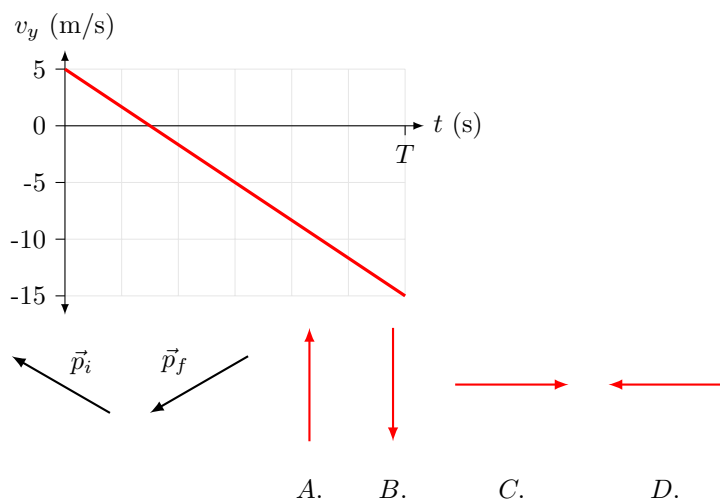
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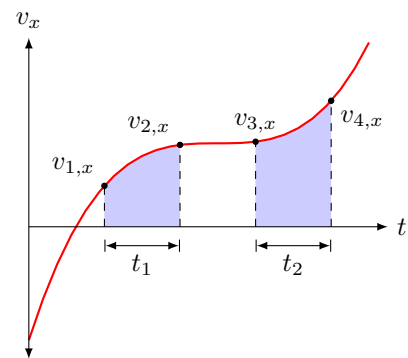
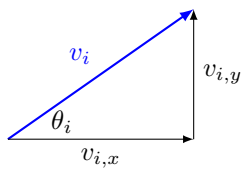
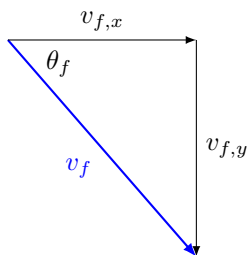
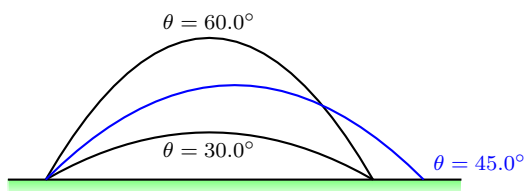
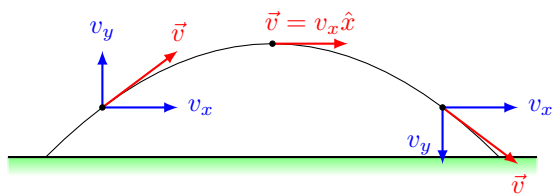
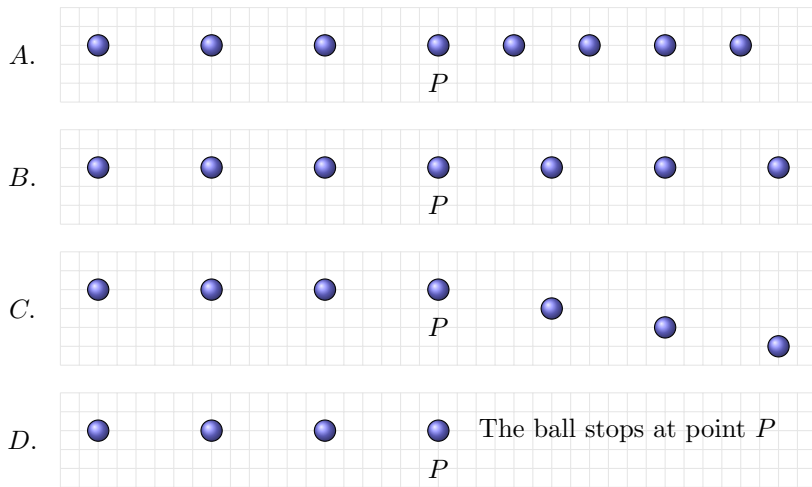


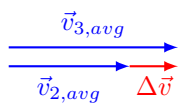
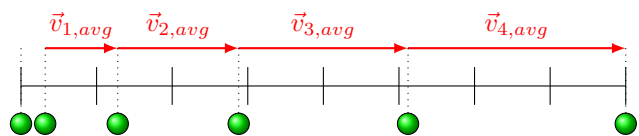
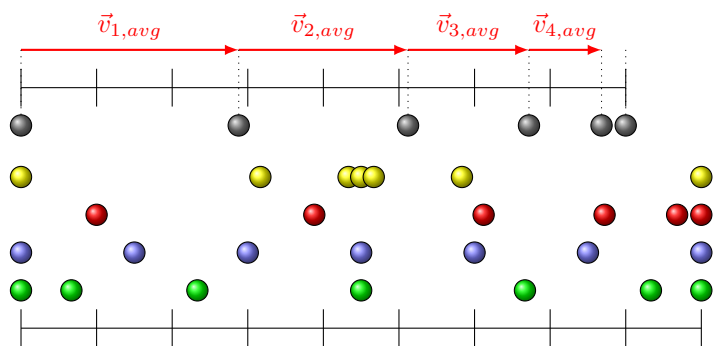
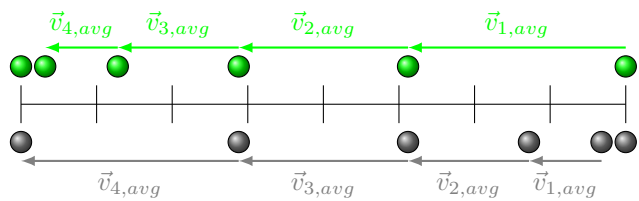
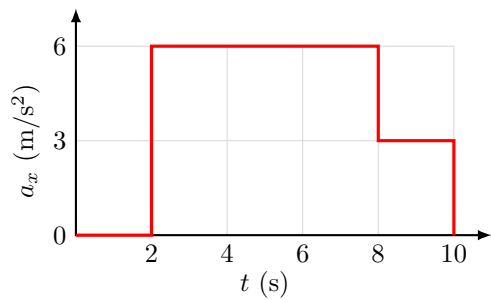
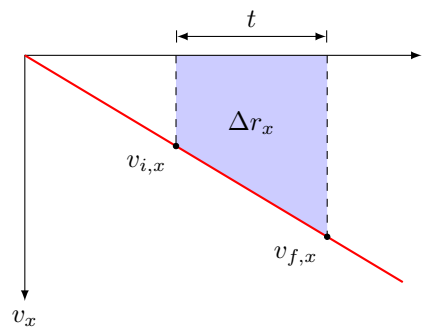
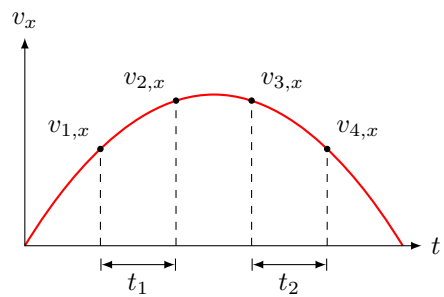


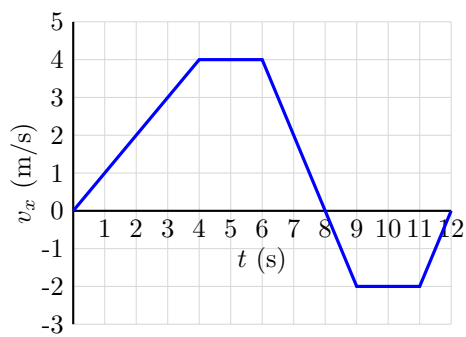
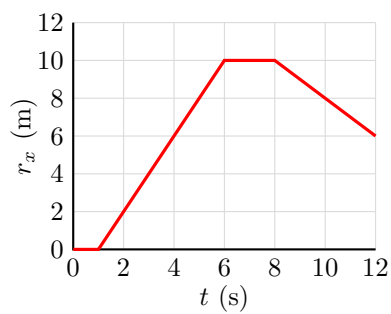
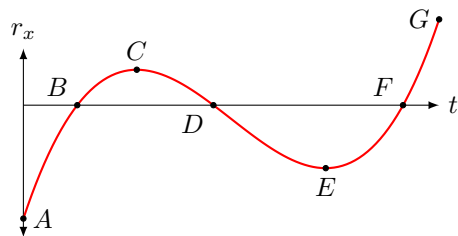
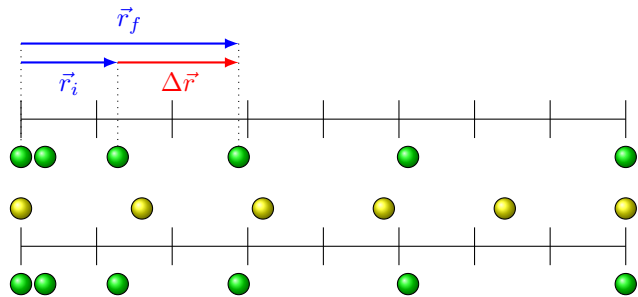




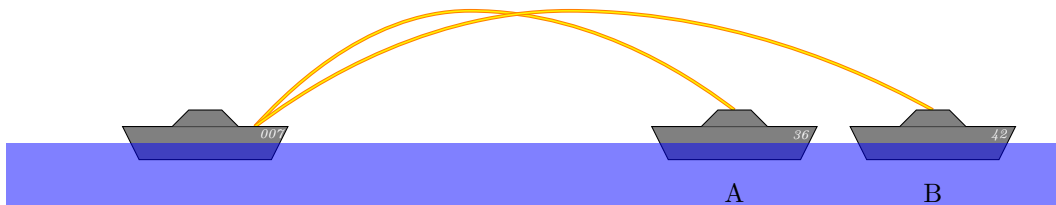
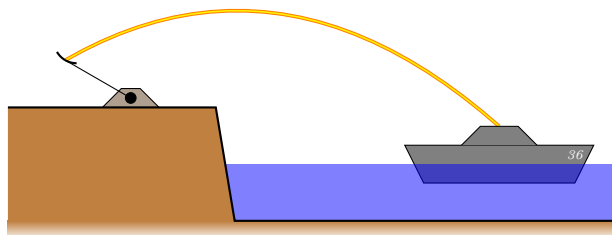


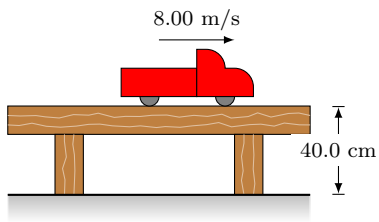
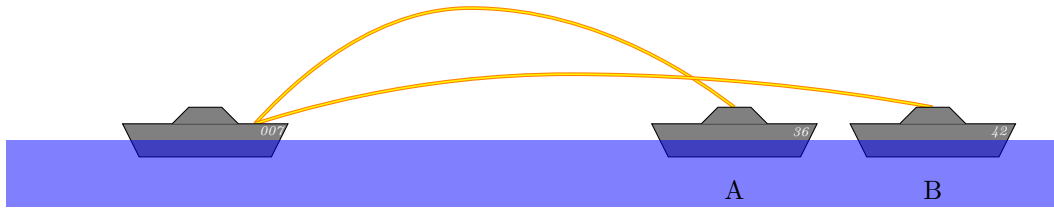




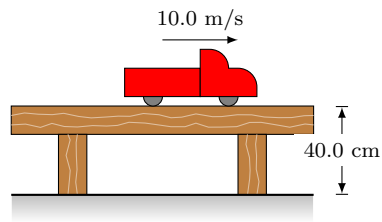


$$\frac{87,996.9 \text{ t}}{1} \cdot \frac{1000 \text{ kg}}{1 \text{ t}} \cdot \frac{10^3 \text{ g}}{1 \text{ kg}} = 87,996,900,000 \text{ g}$$

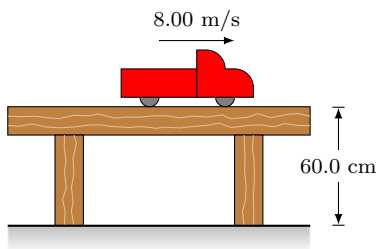




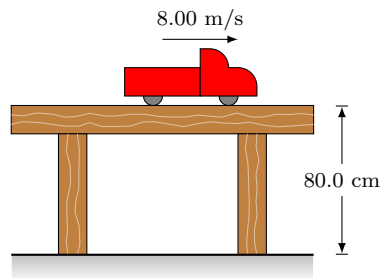
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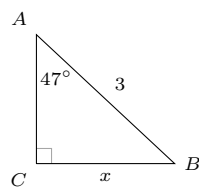
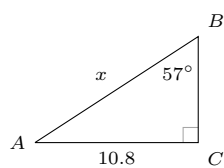
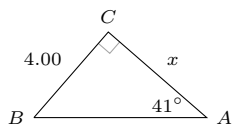
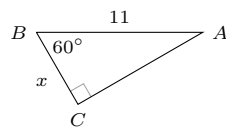
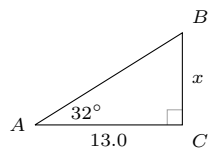
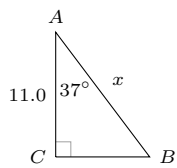
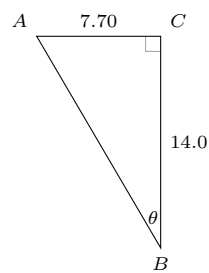
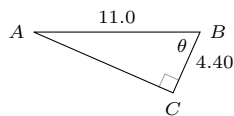
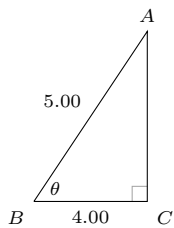
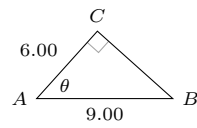
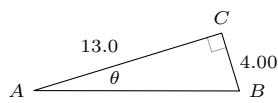
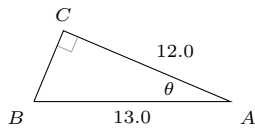
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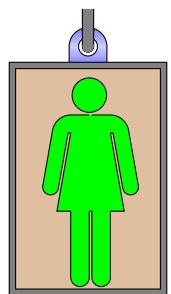
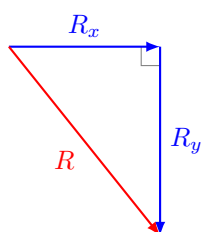
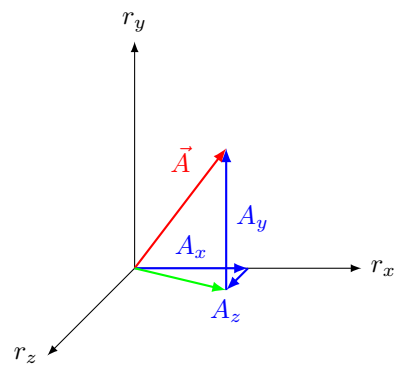


A.

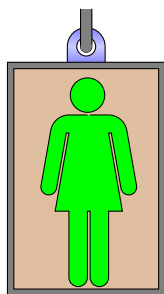


B.

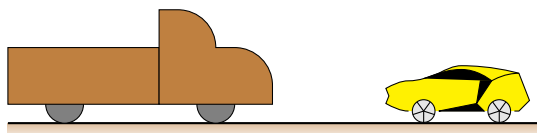
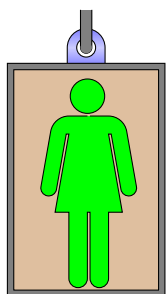


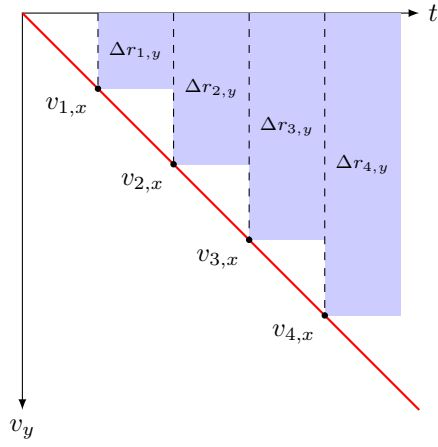


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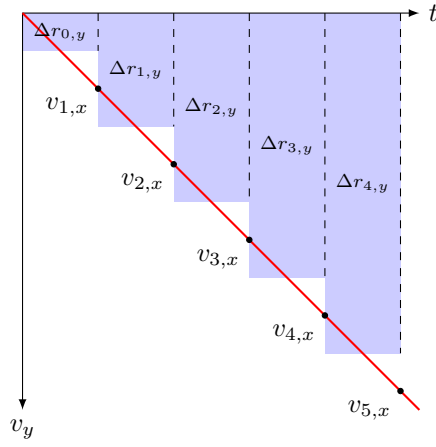


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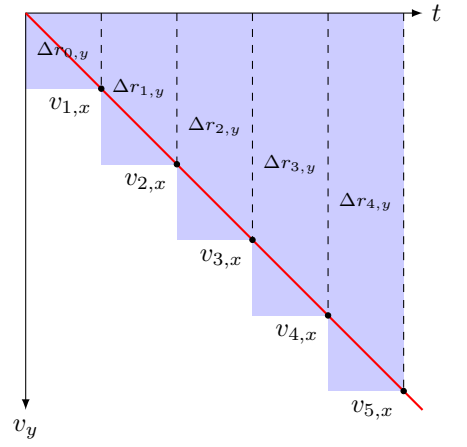




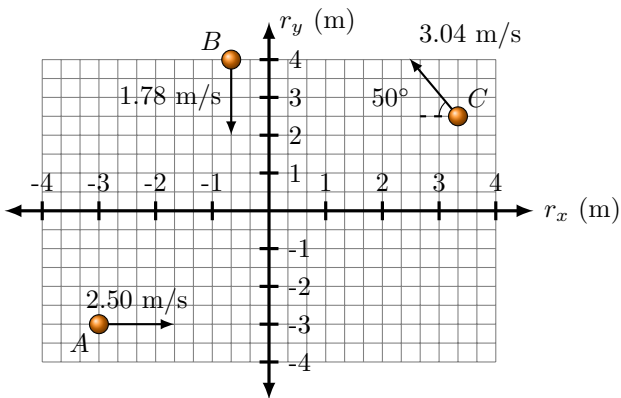
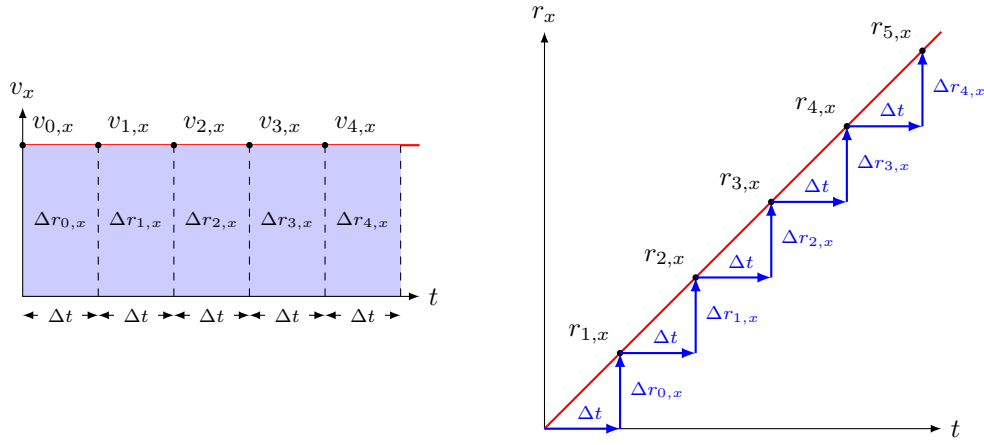
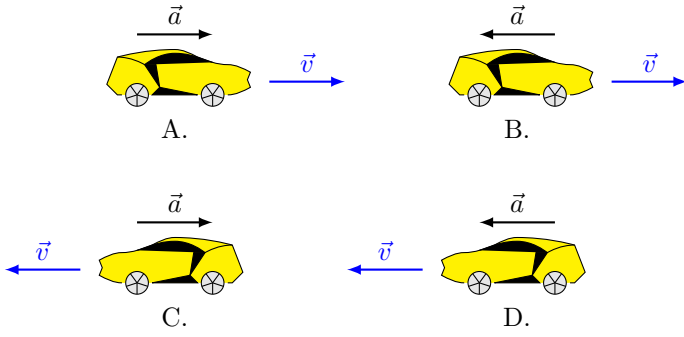
Update using initial velocity

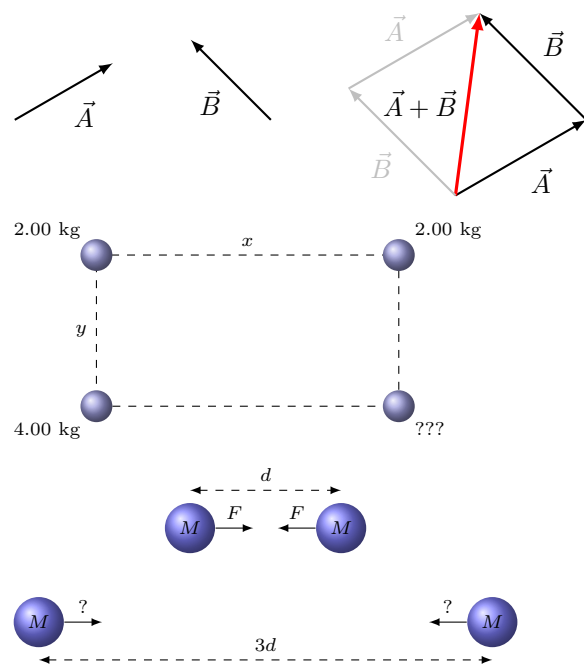
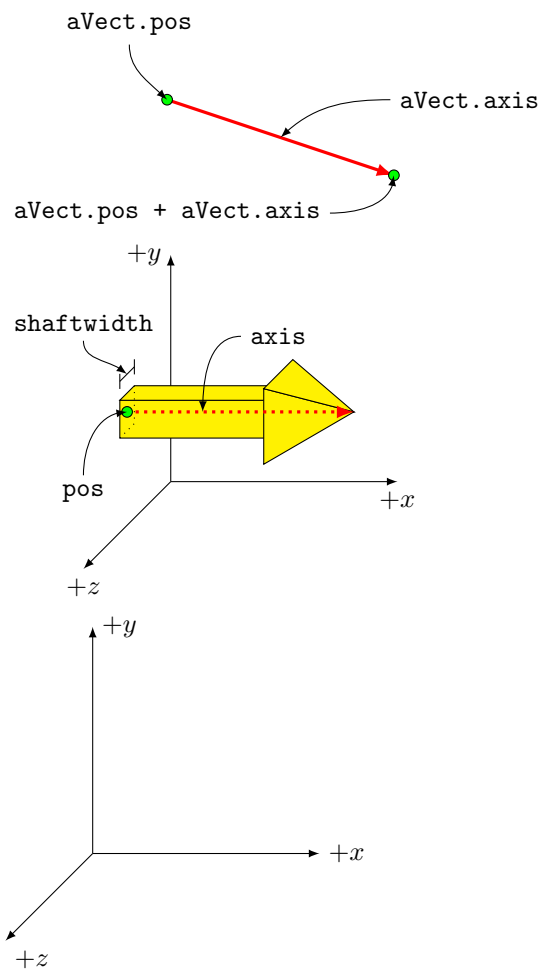


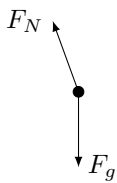
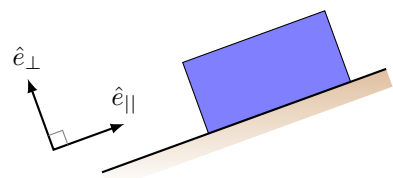
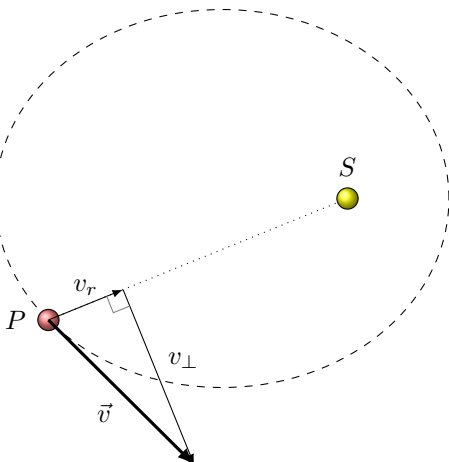
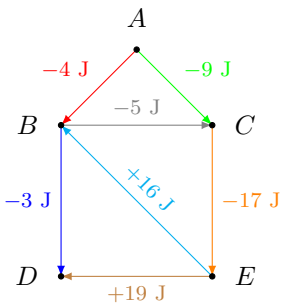
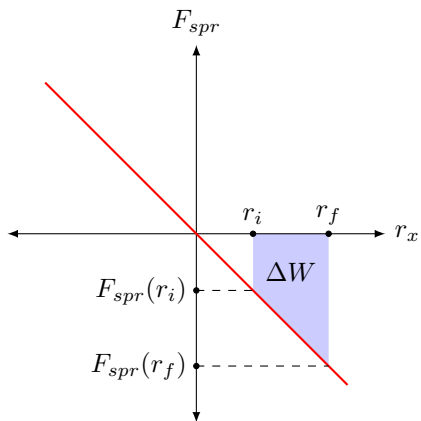
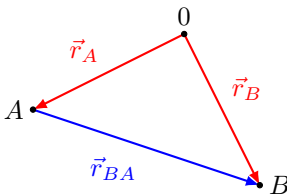
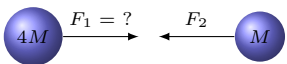
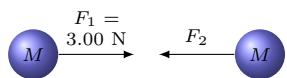
Update using average velocity

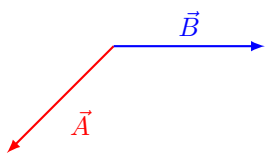
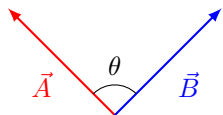
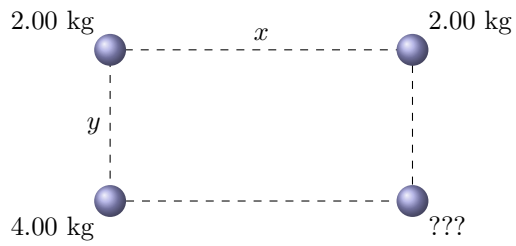
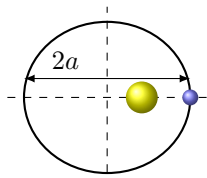


Update using final velocity

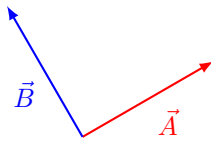








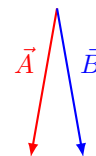
A.



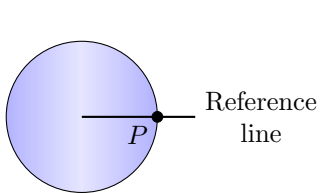
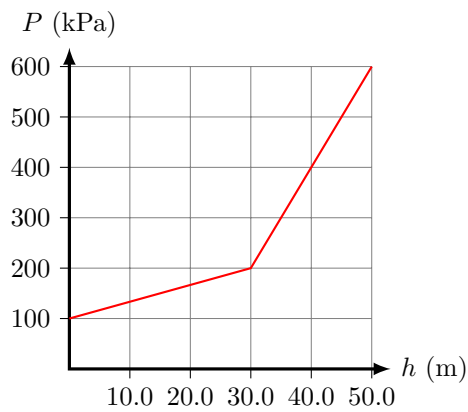
B.



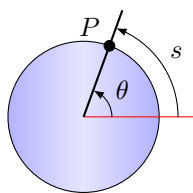
C.



D.



(a)



(b)

