

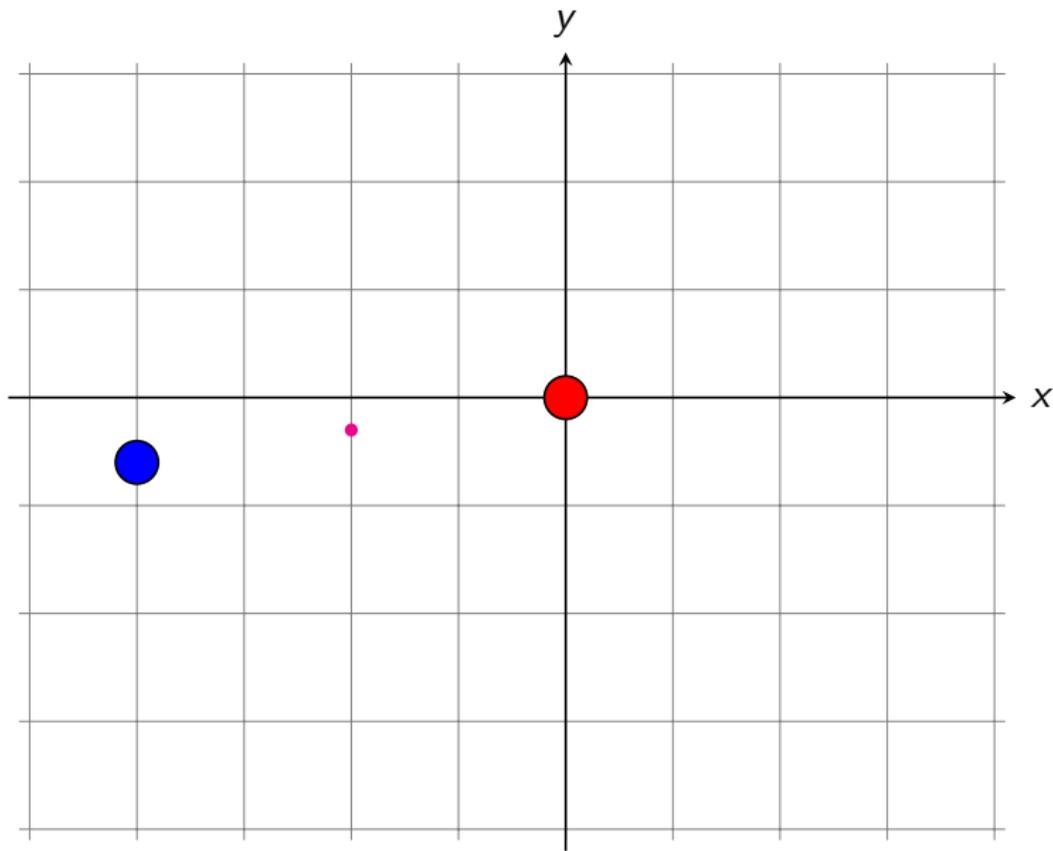
Choc élastique : billard

Sur une table de billard, une boule est envoyée en direction d'une seconde boule identique à la première.

Si la collision a lieu et que le choc est élastique (l'énergie cinétique conservée), on montre que les vitesses suite au choc sont orthogonales.

Dans tous les cas, en absence de forces extérieures, le mouvement du centre de masse $\vec{r}_{\text{CM}} = \frac{1}{2}(\vec{r}_1 + \vec{r}_2)$ est uniforme.

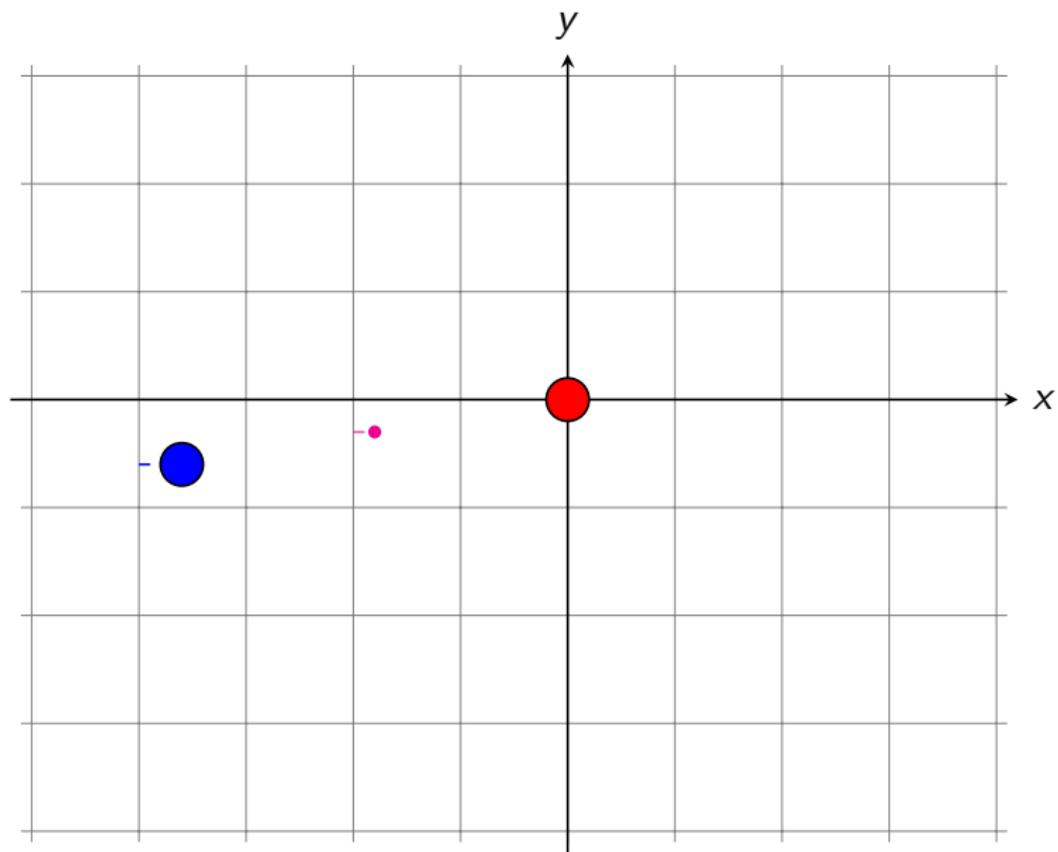
Sans choc



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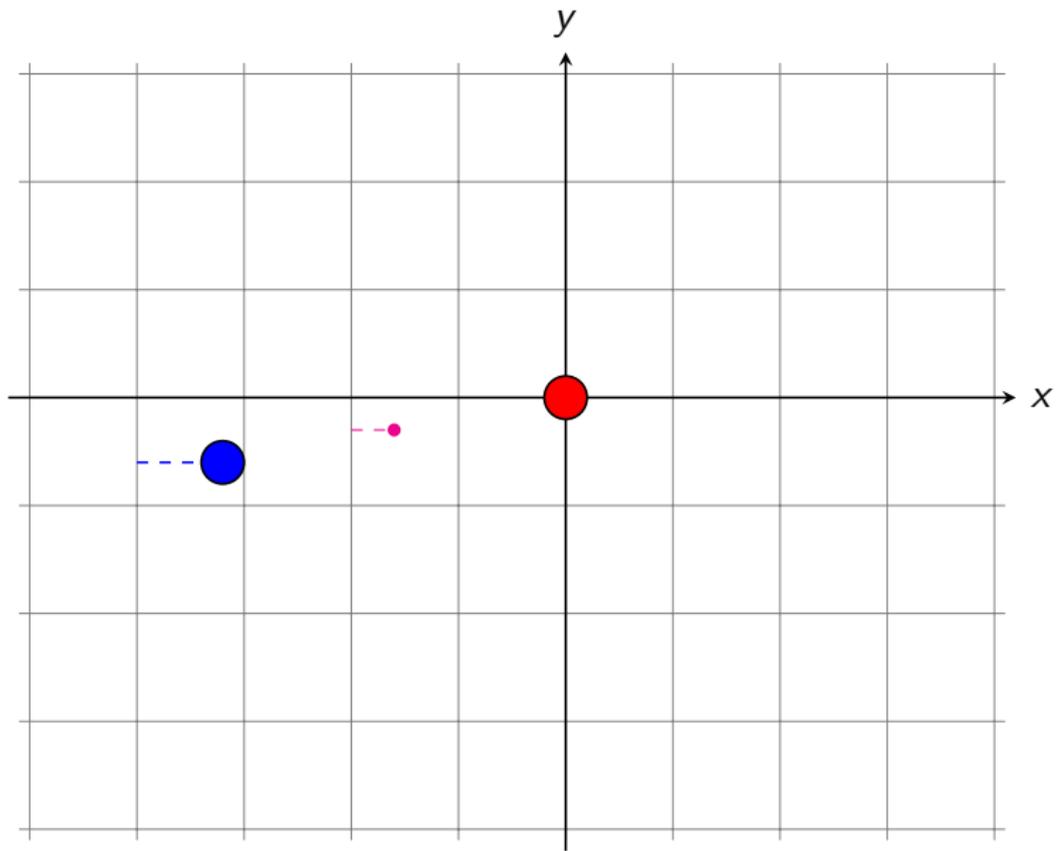
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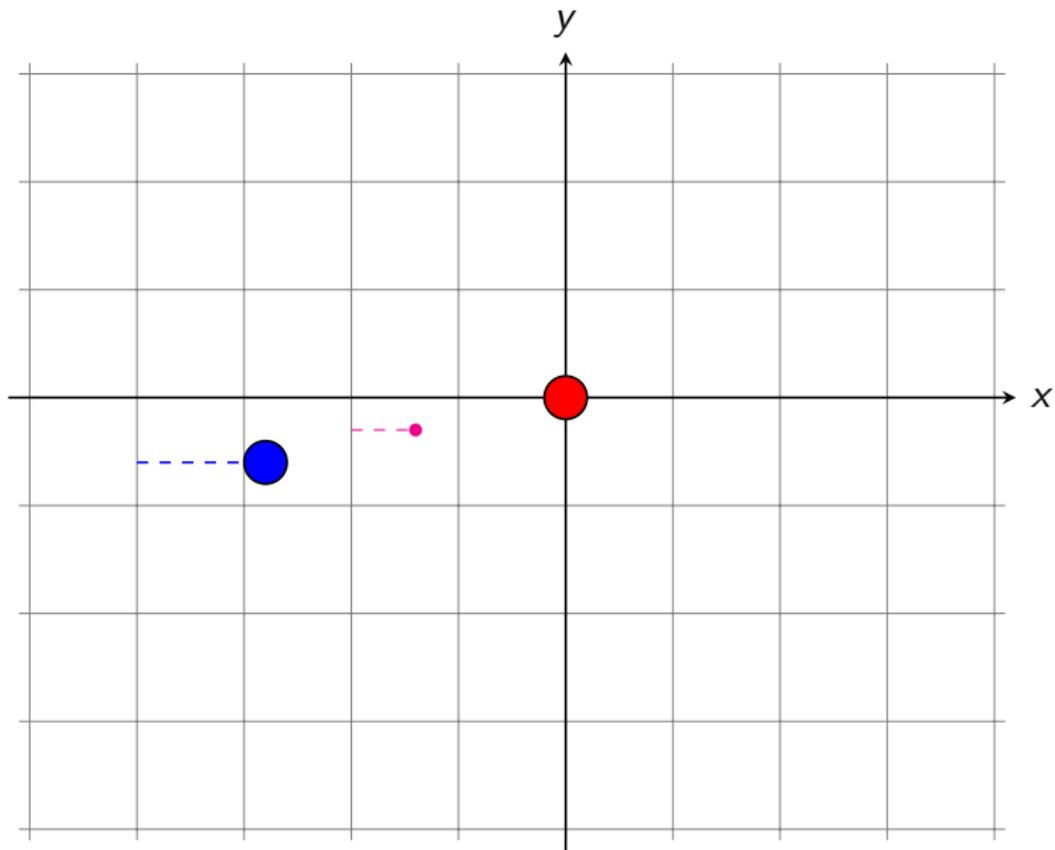
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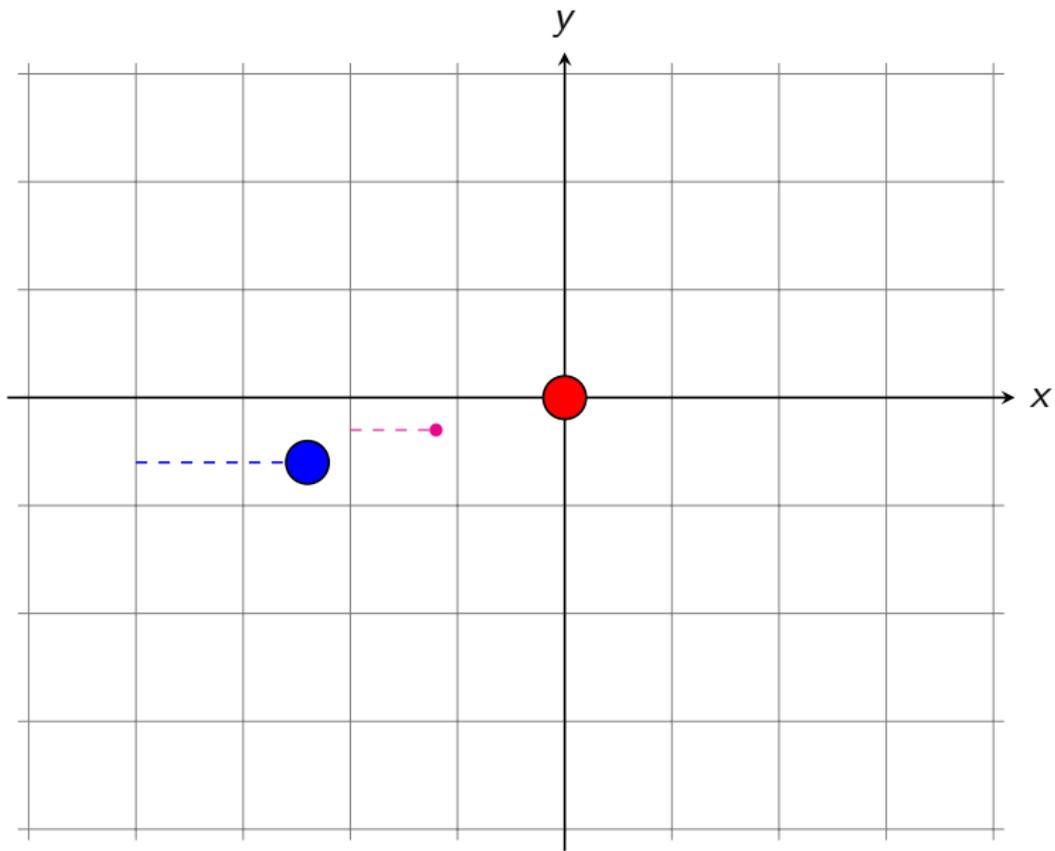
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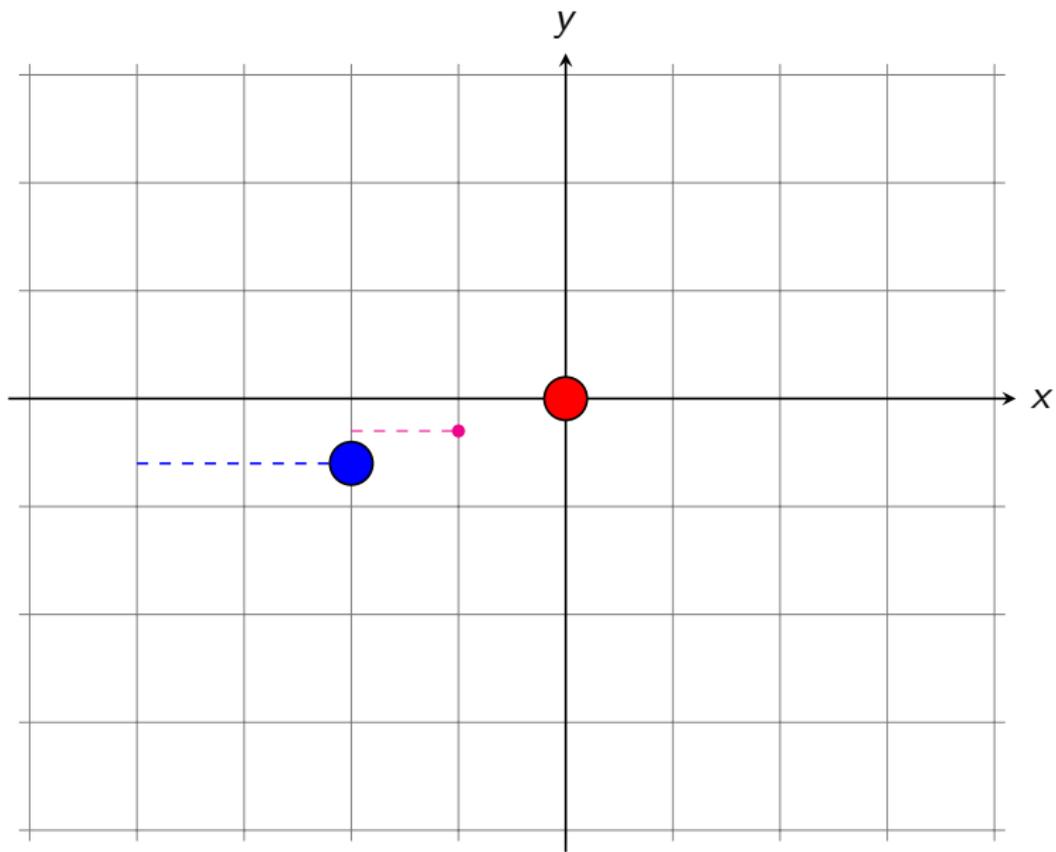


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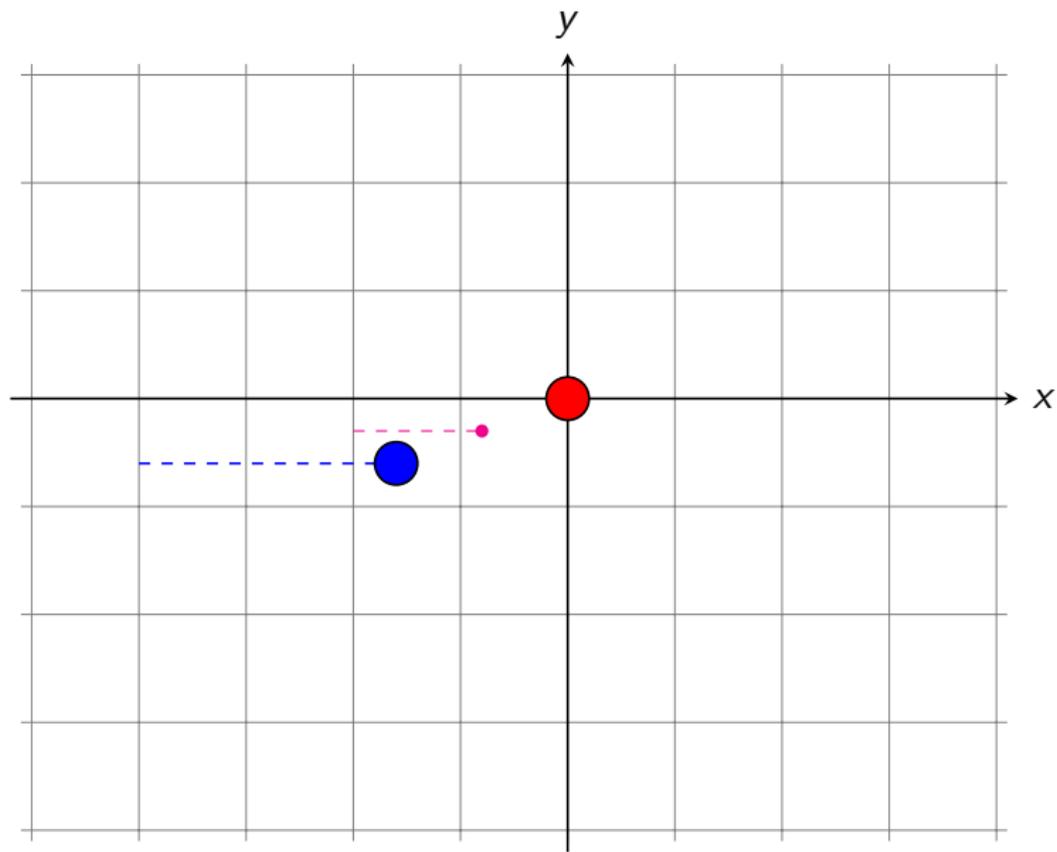
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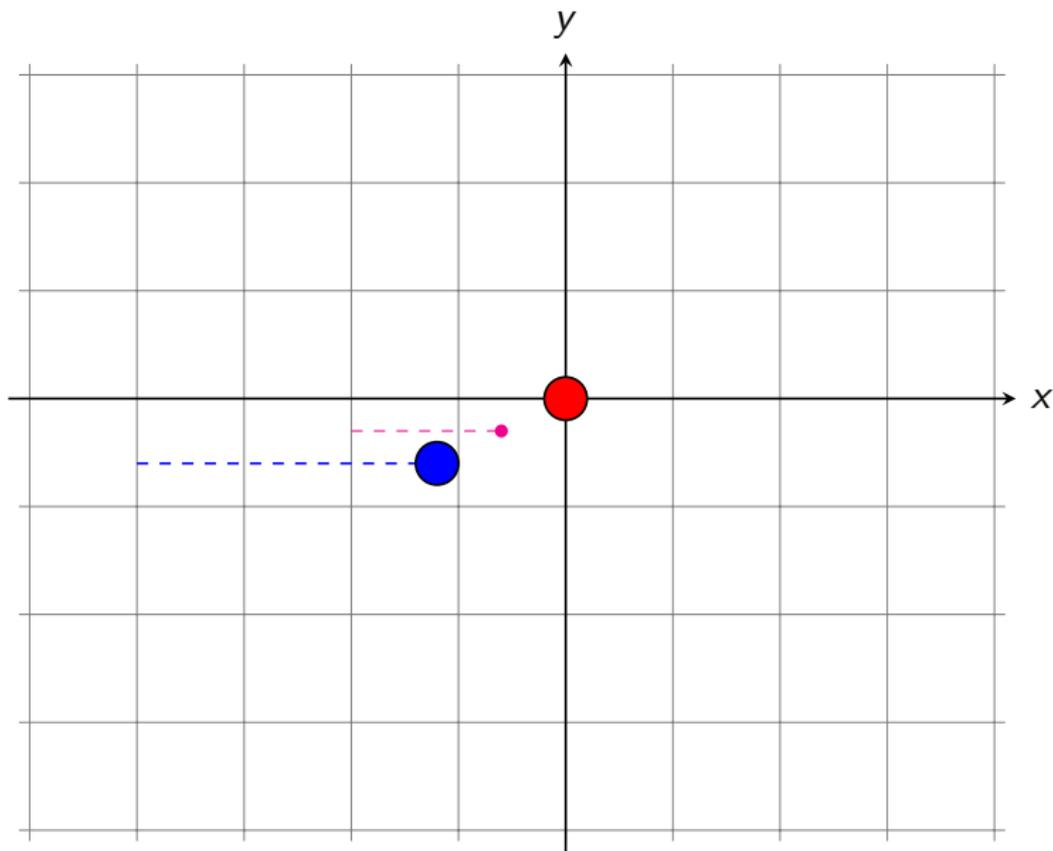




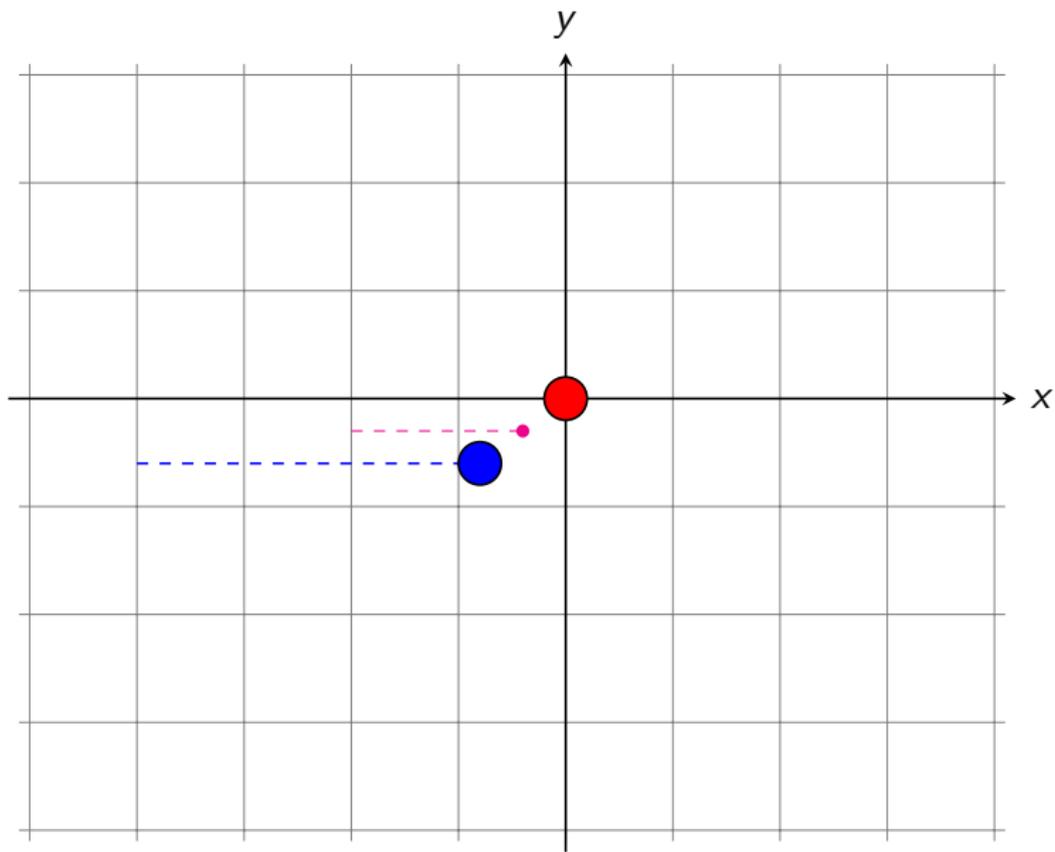
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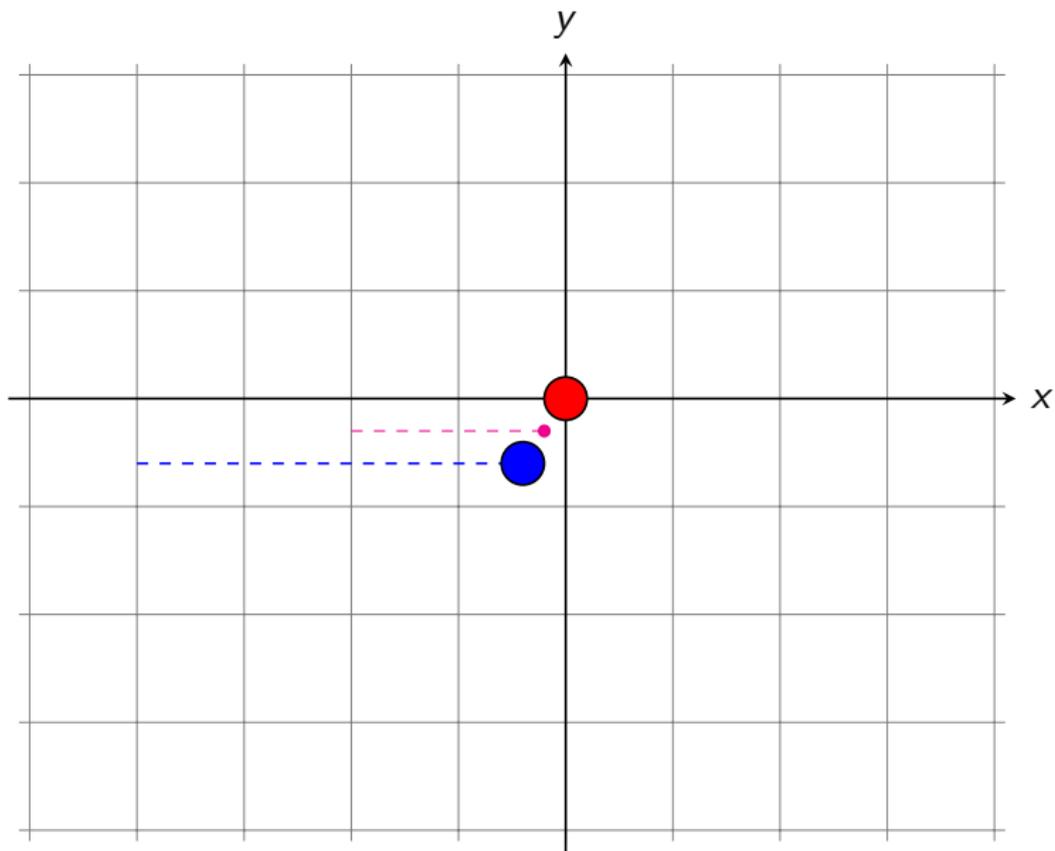
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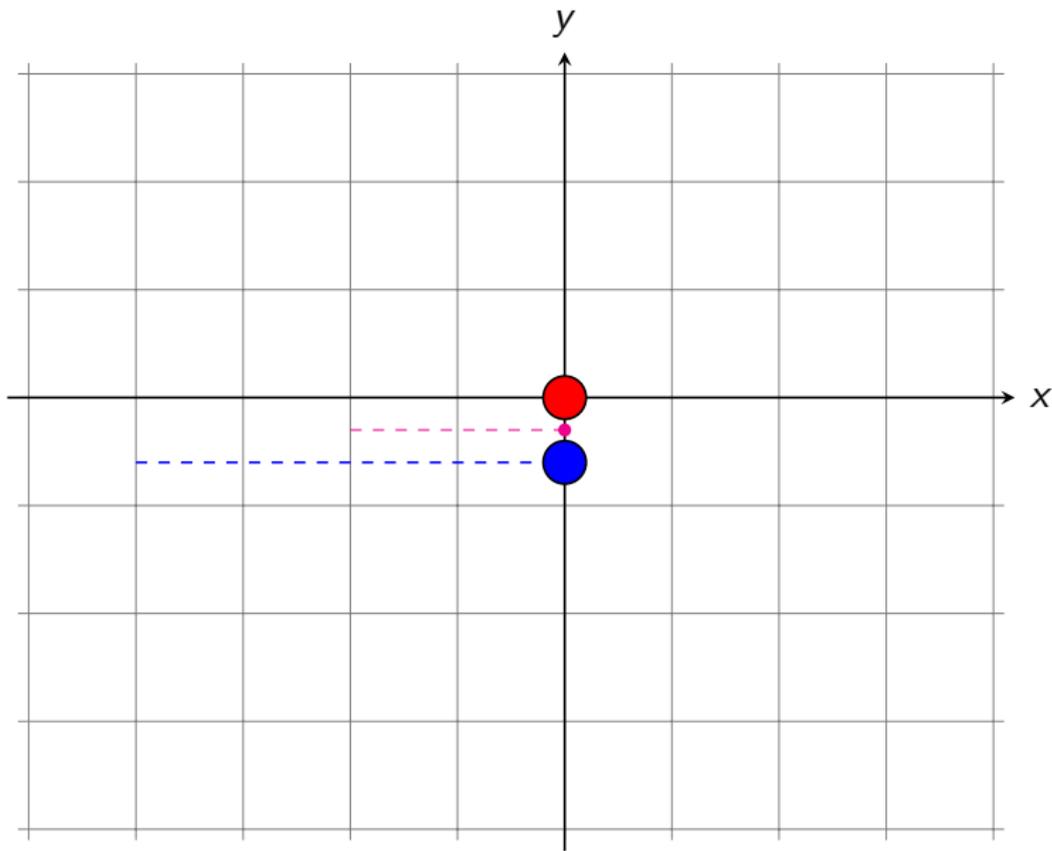
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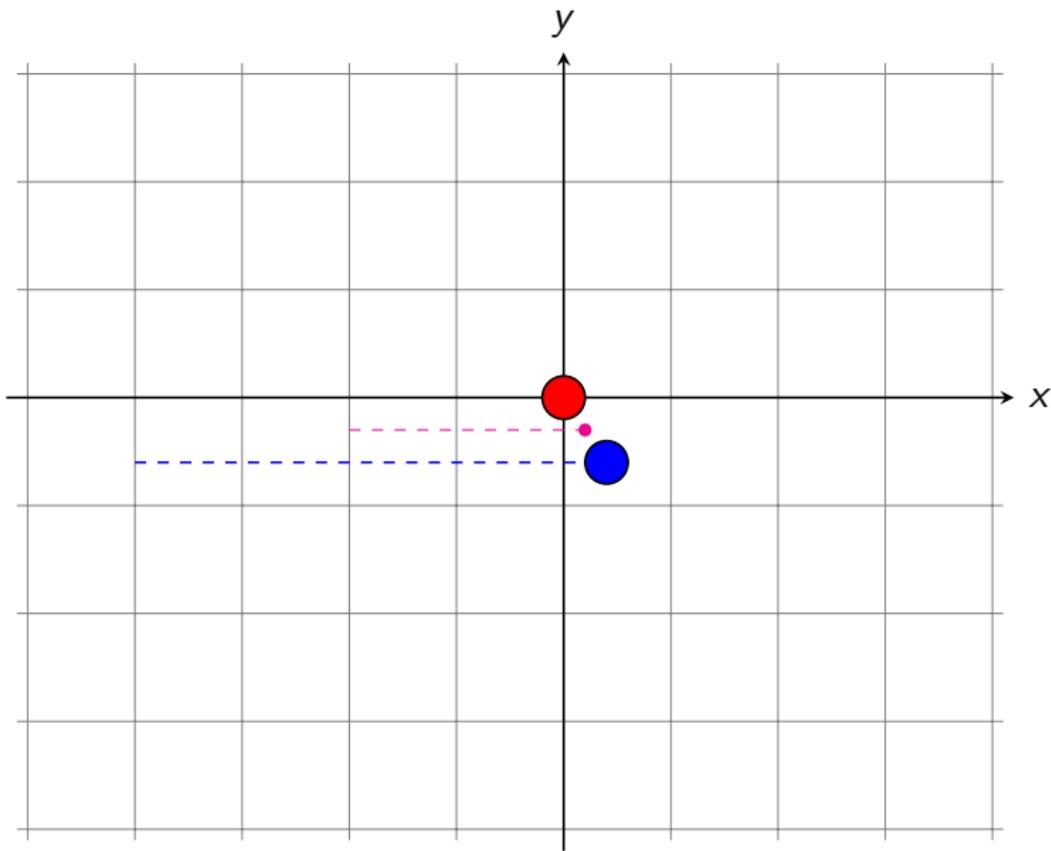


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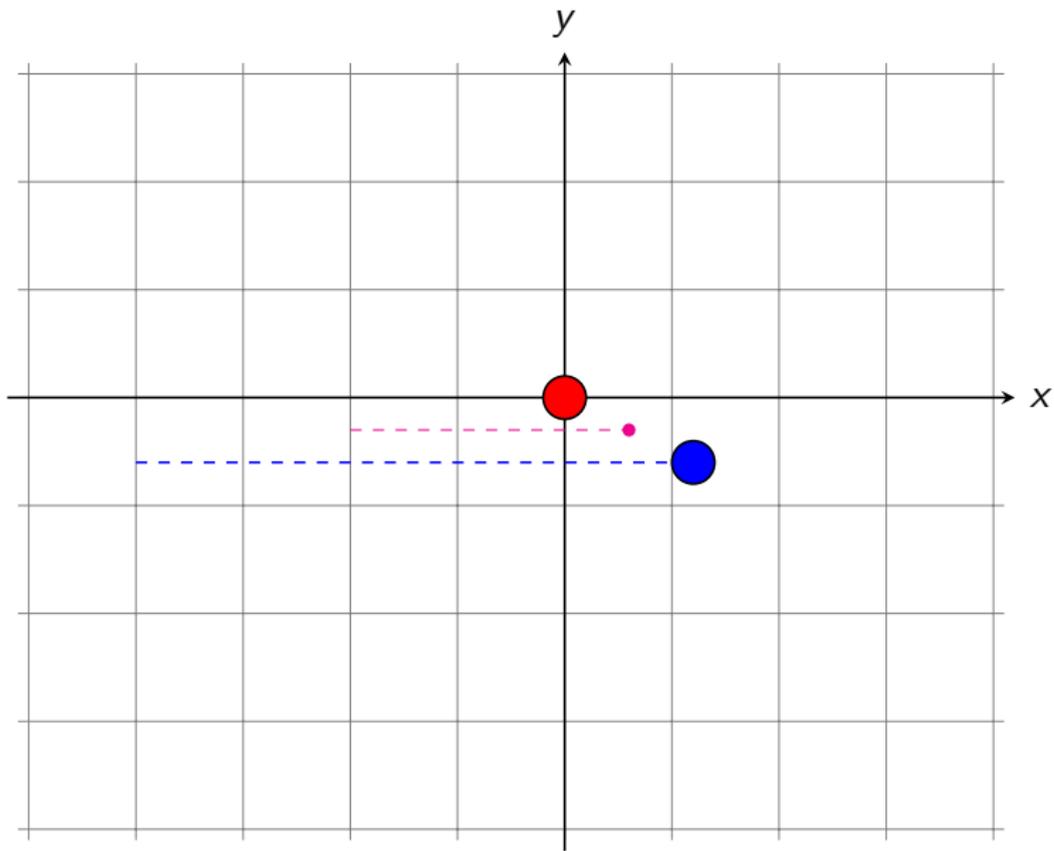


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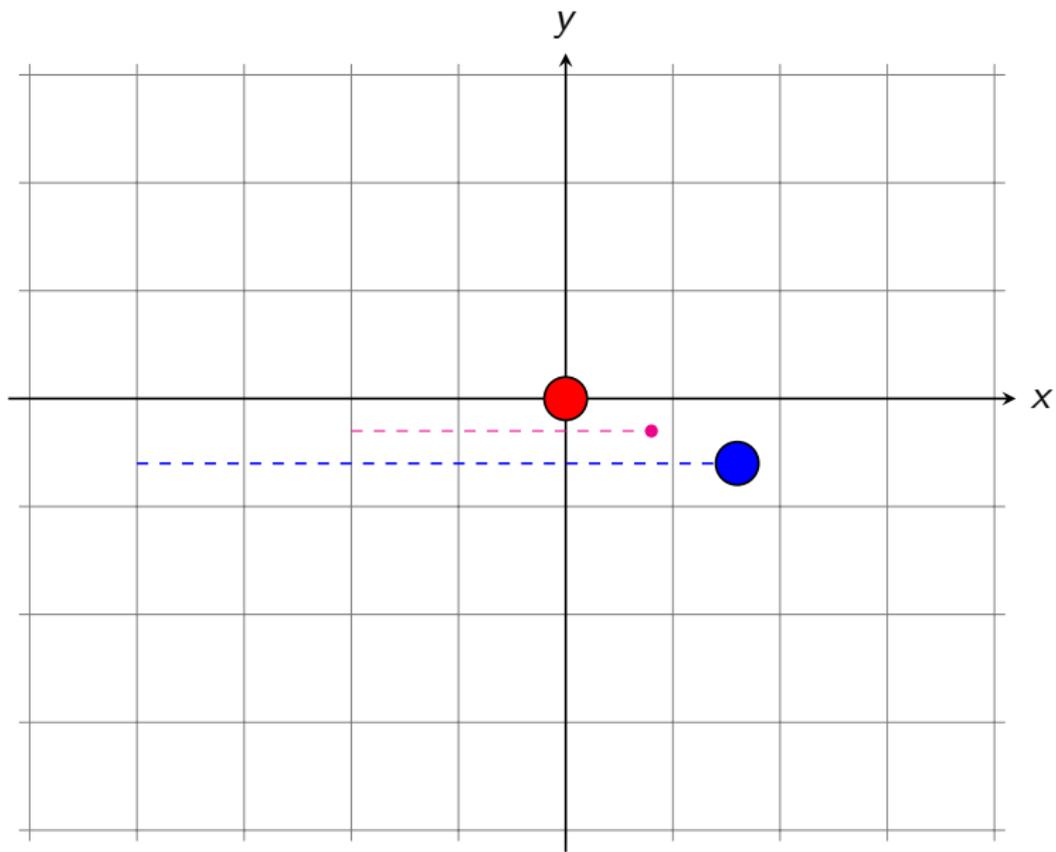
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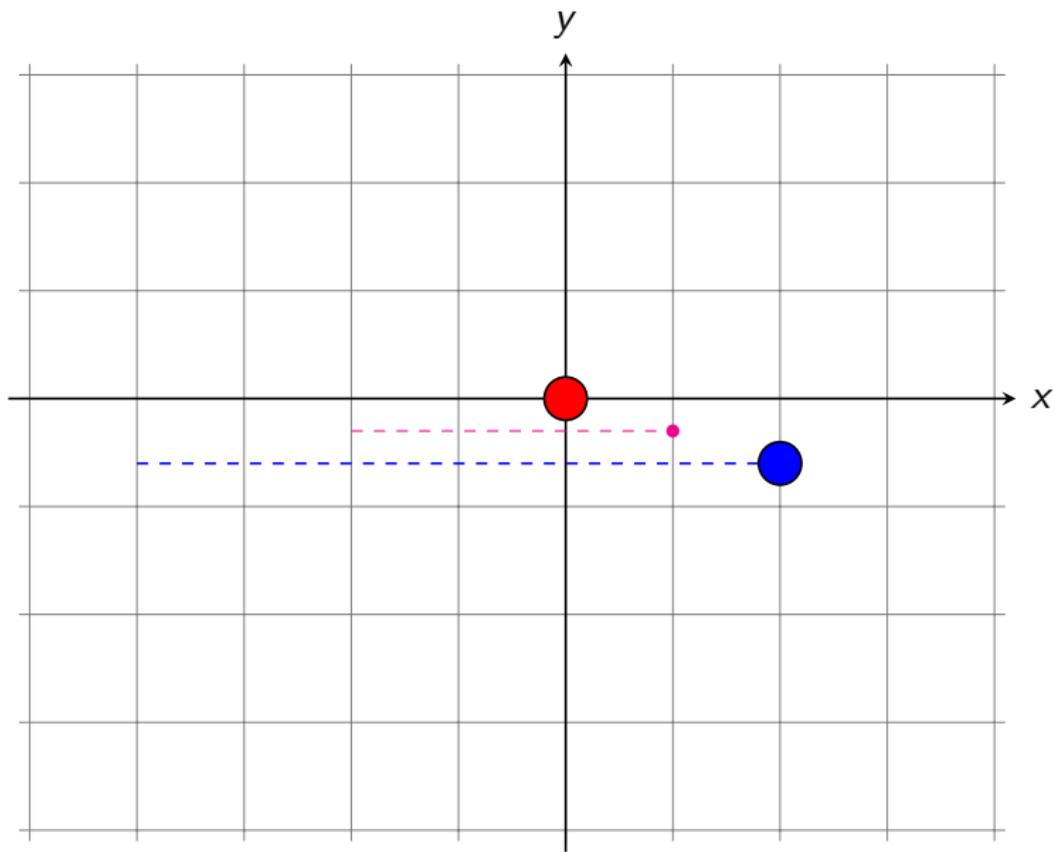
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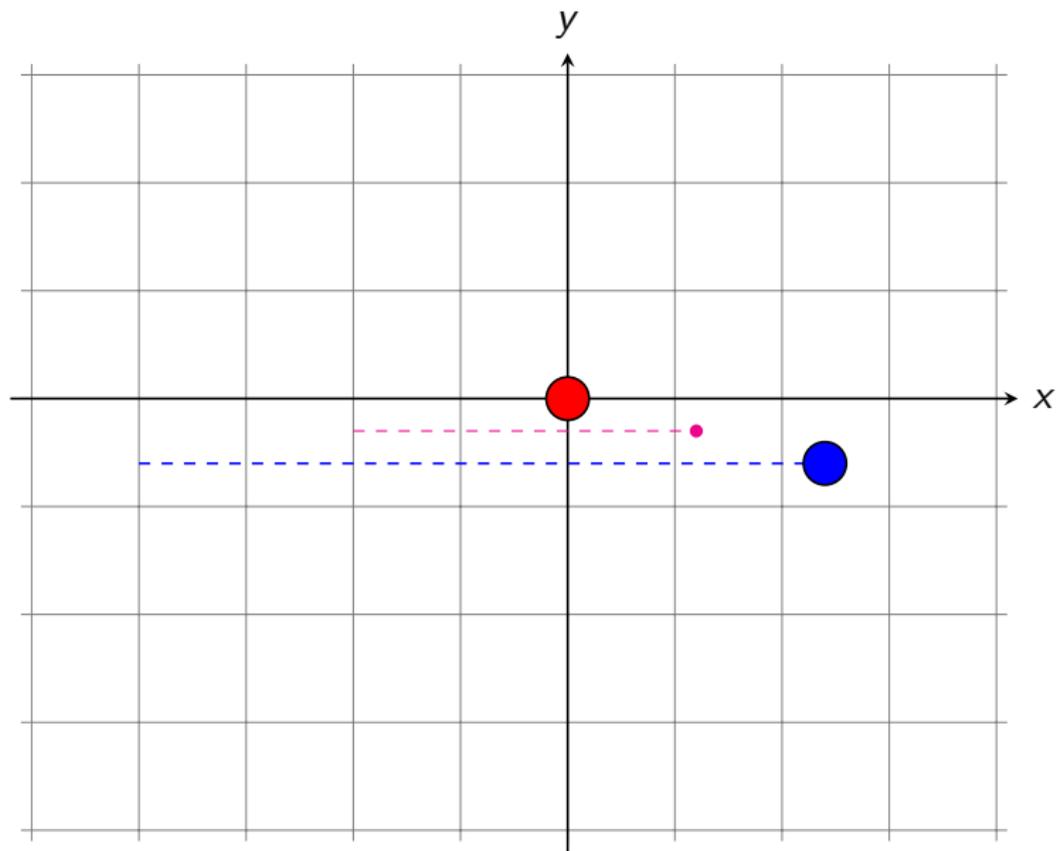
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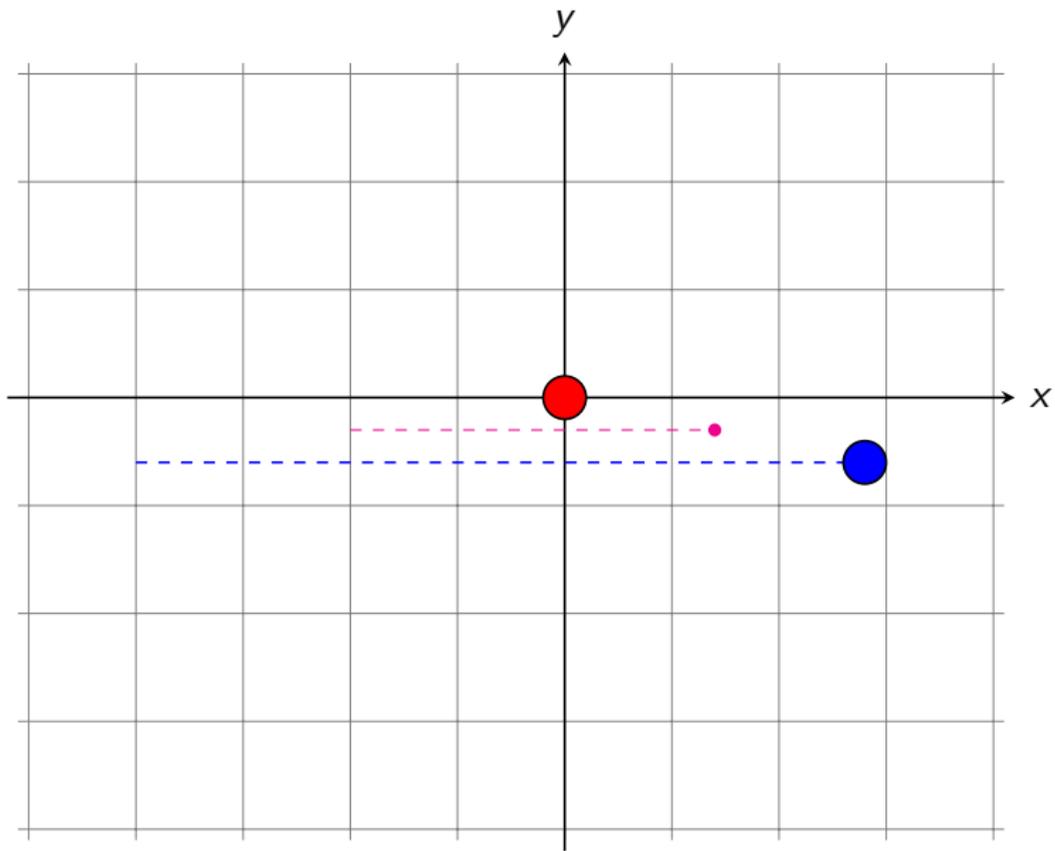
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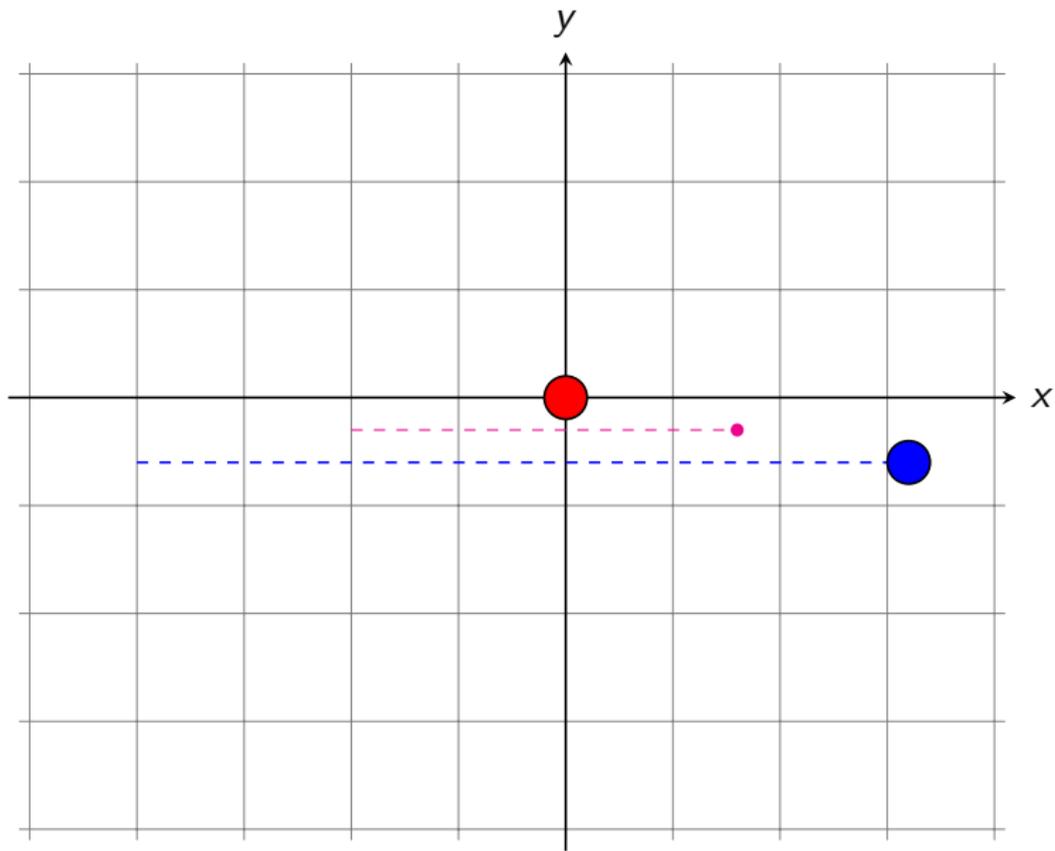
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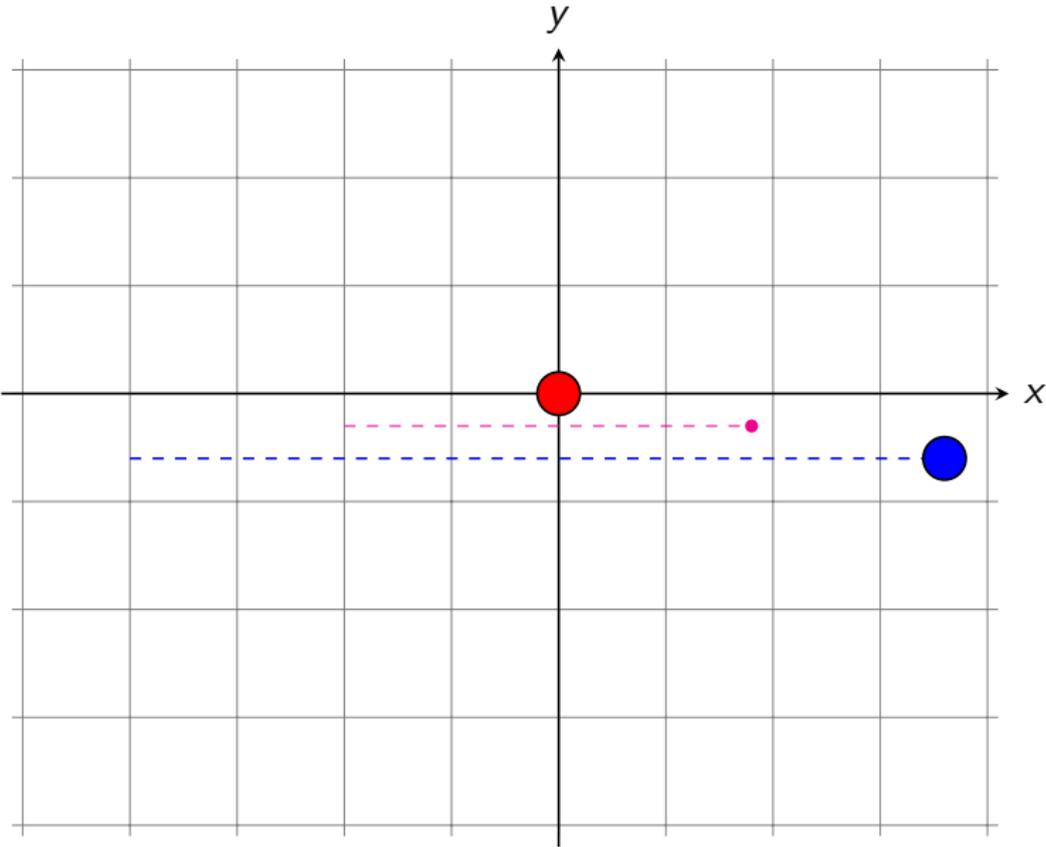
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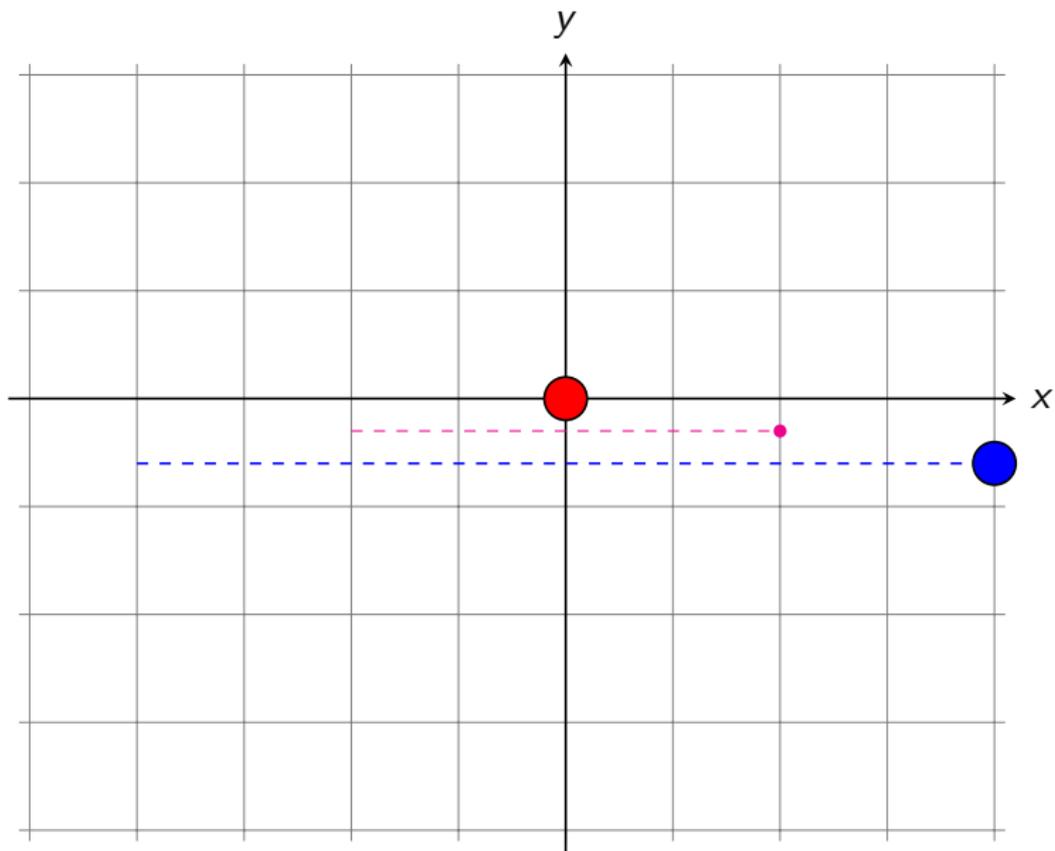
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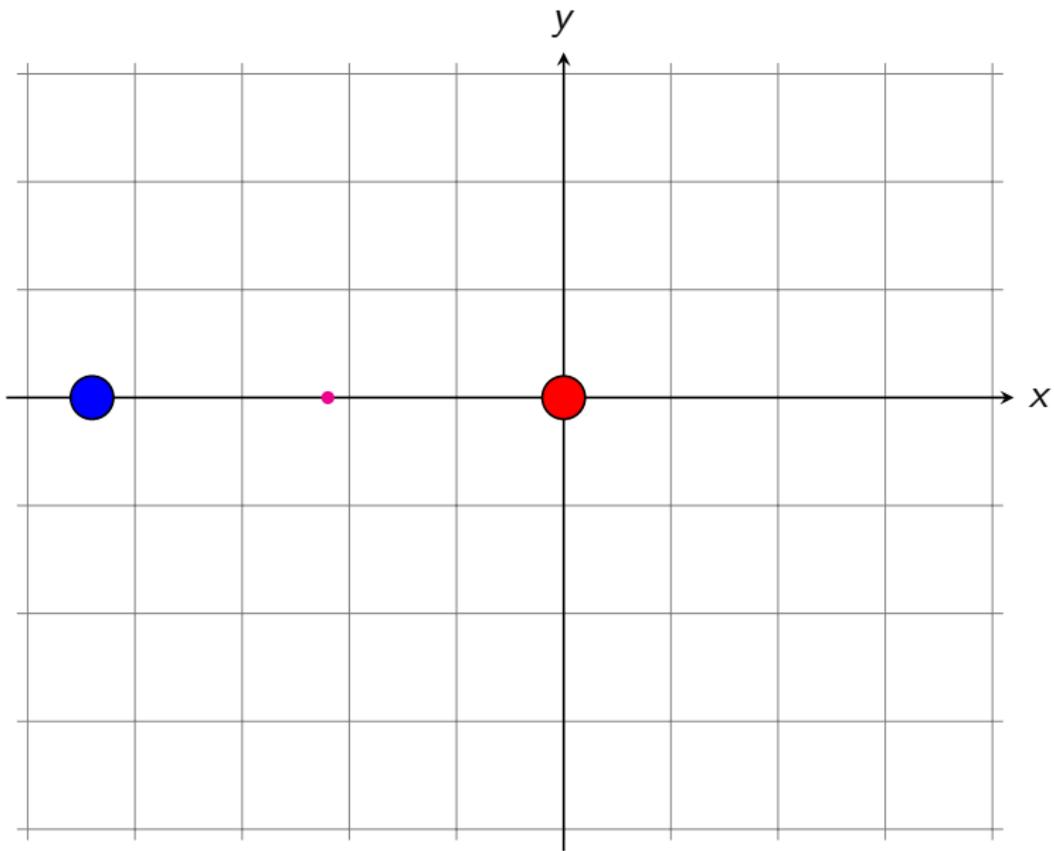


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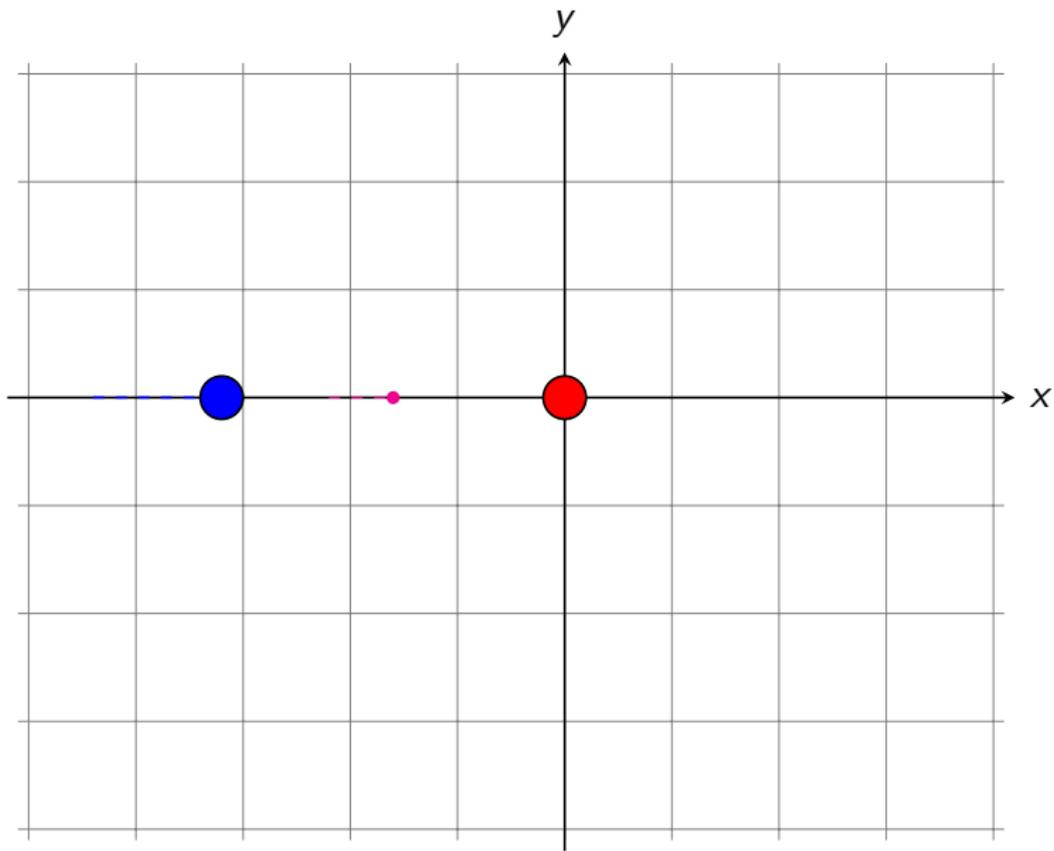
Choc frontal



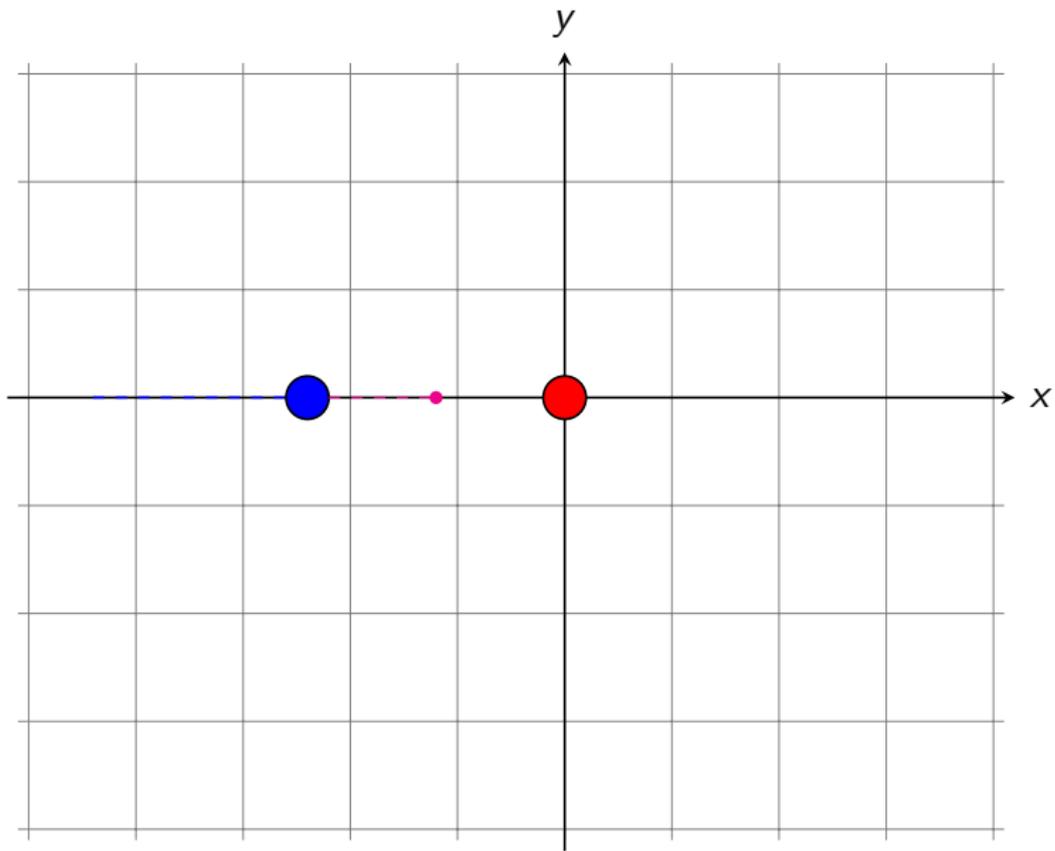
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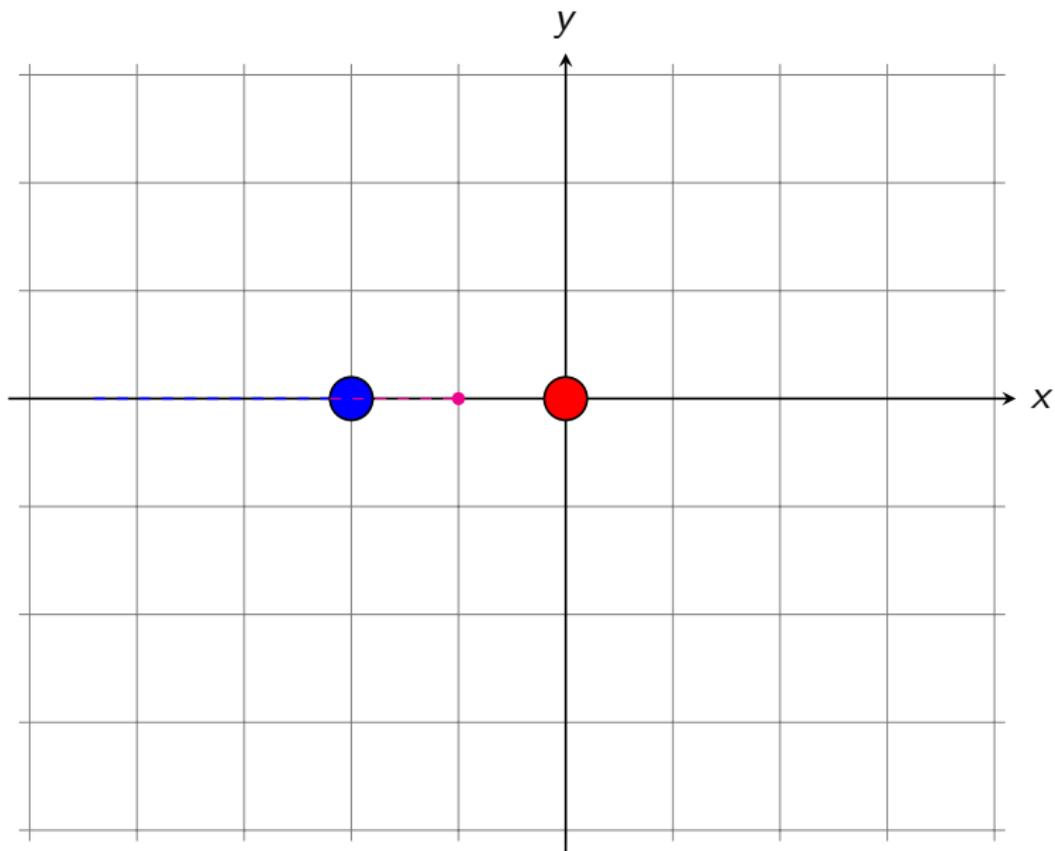
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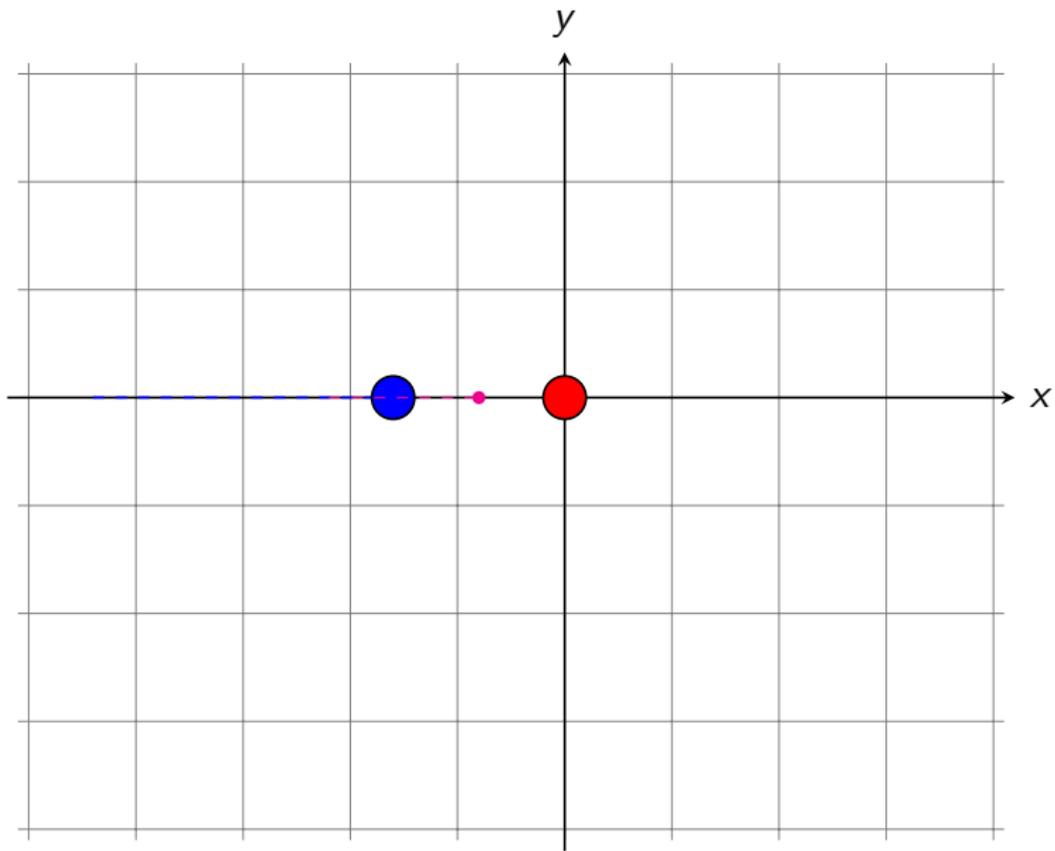
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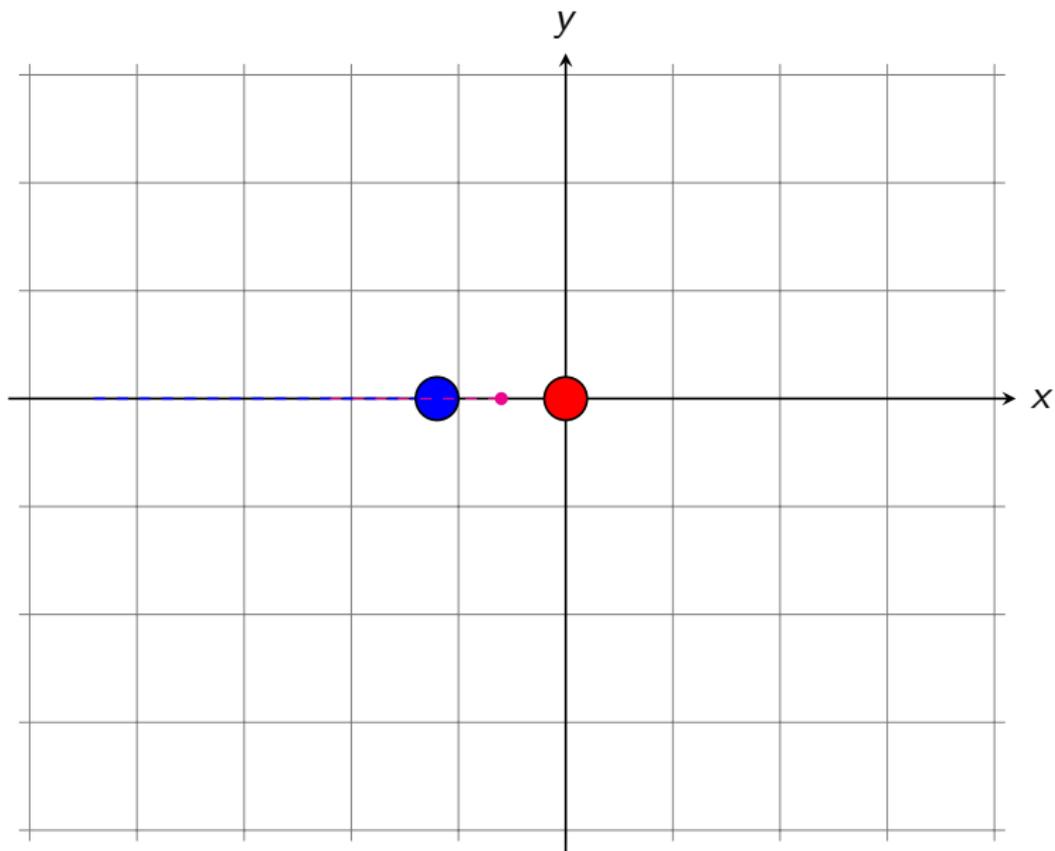
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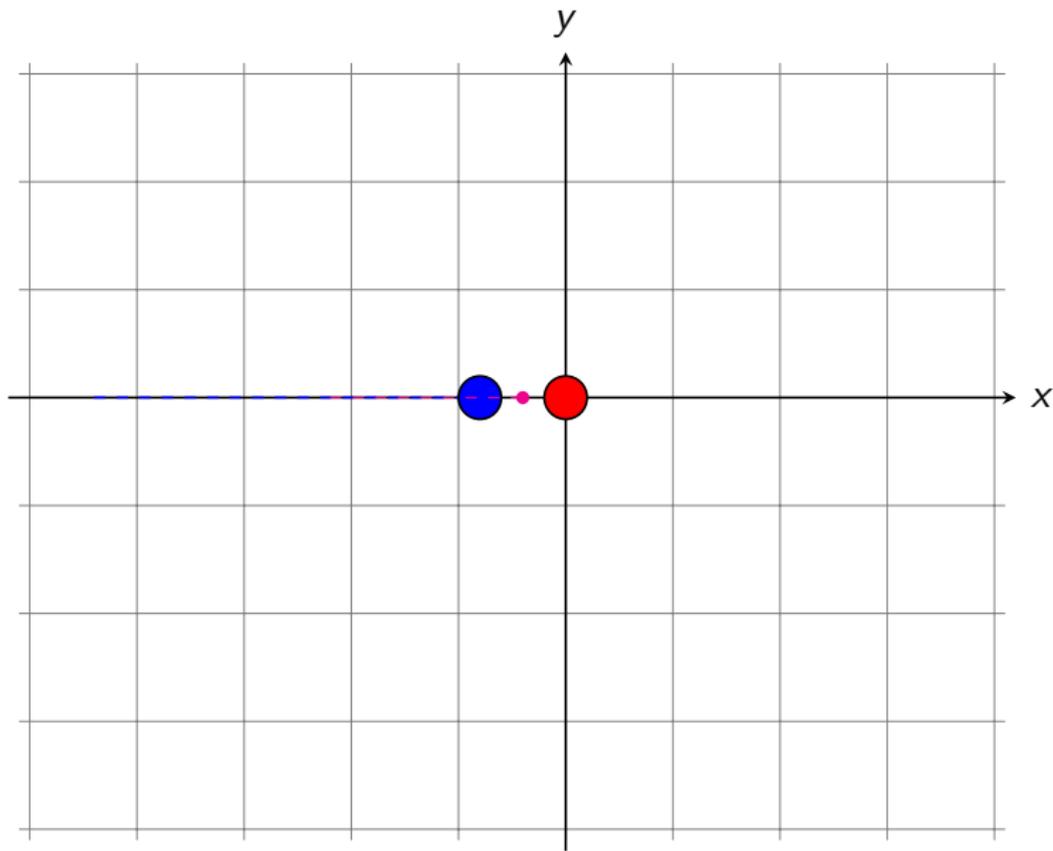
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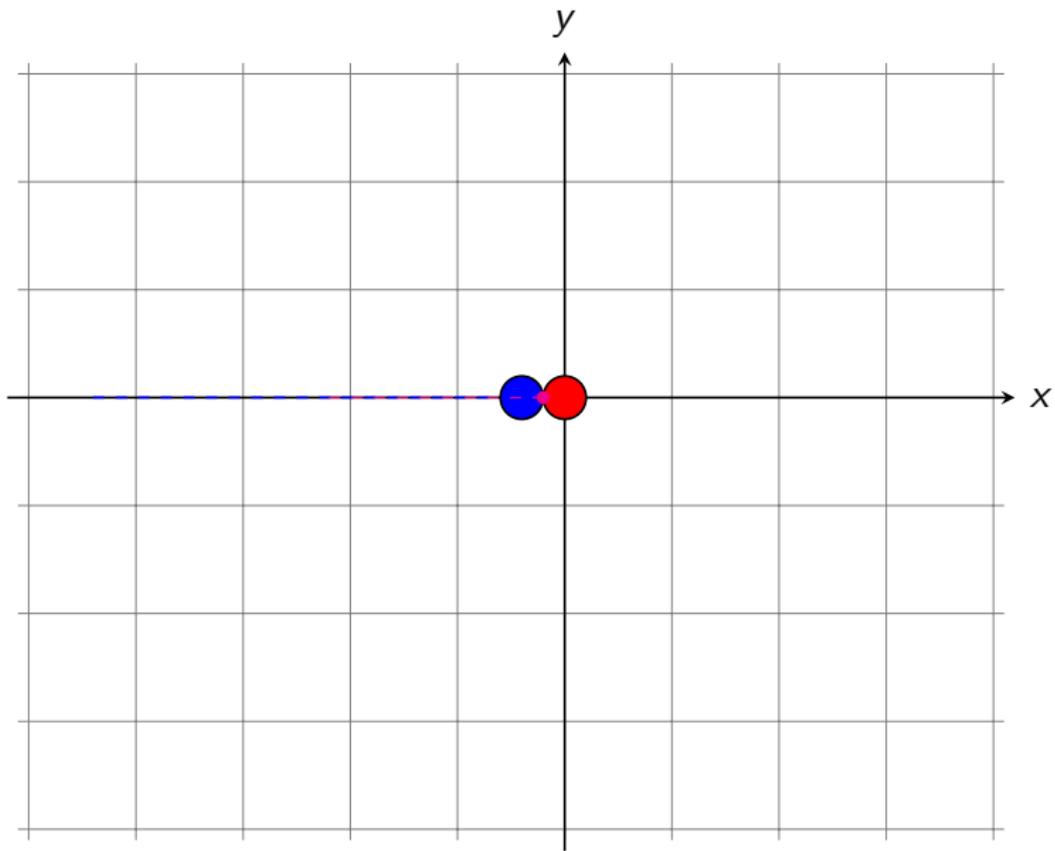
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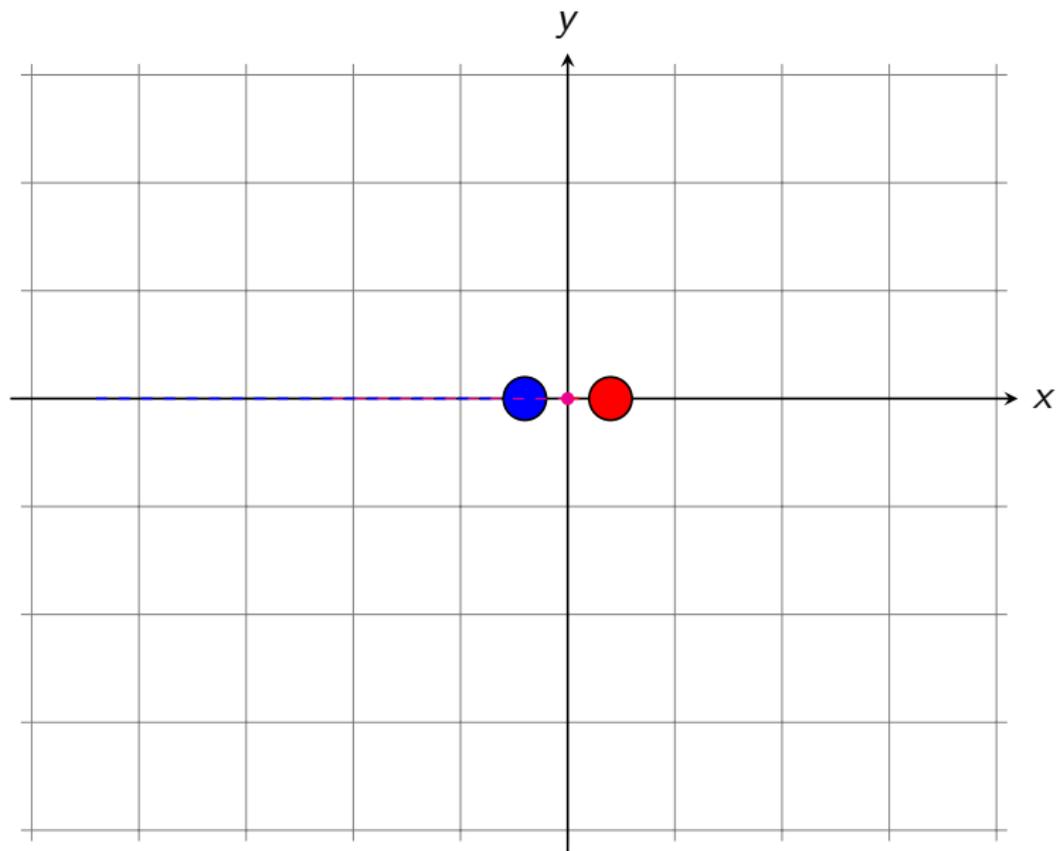
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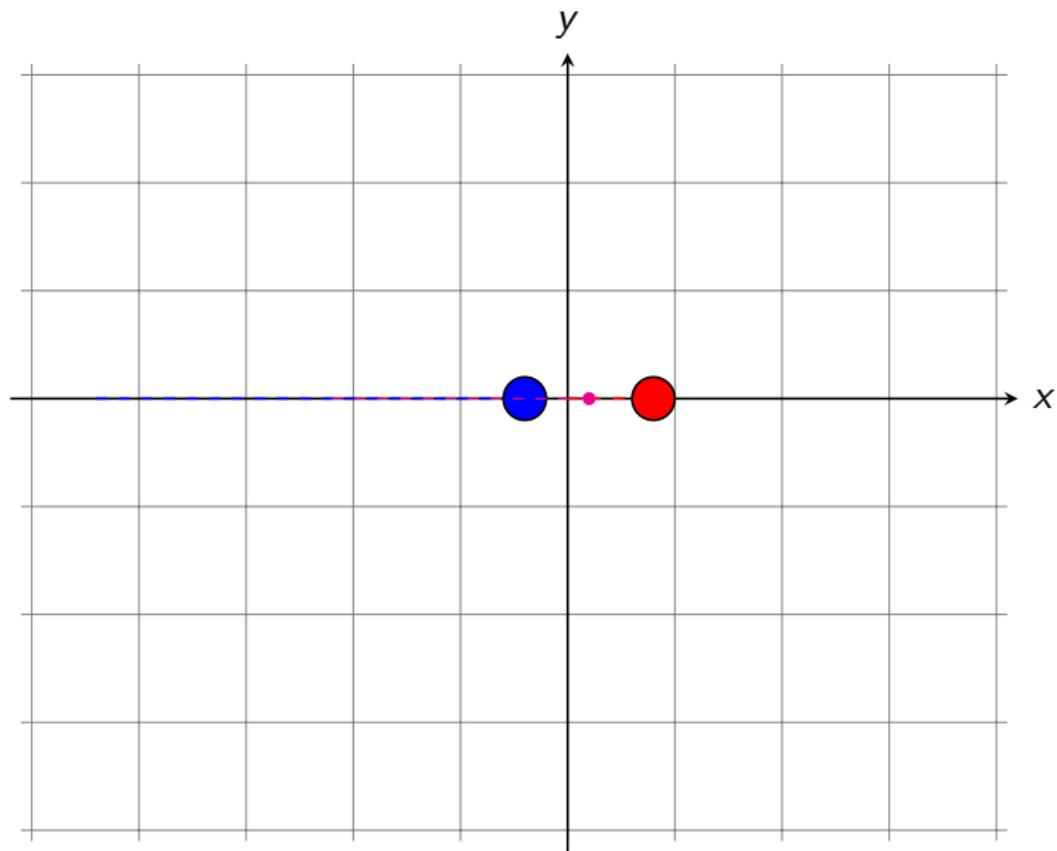
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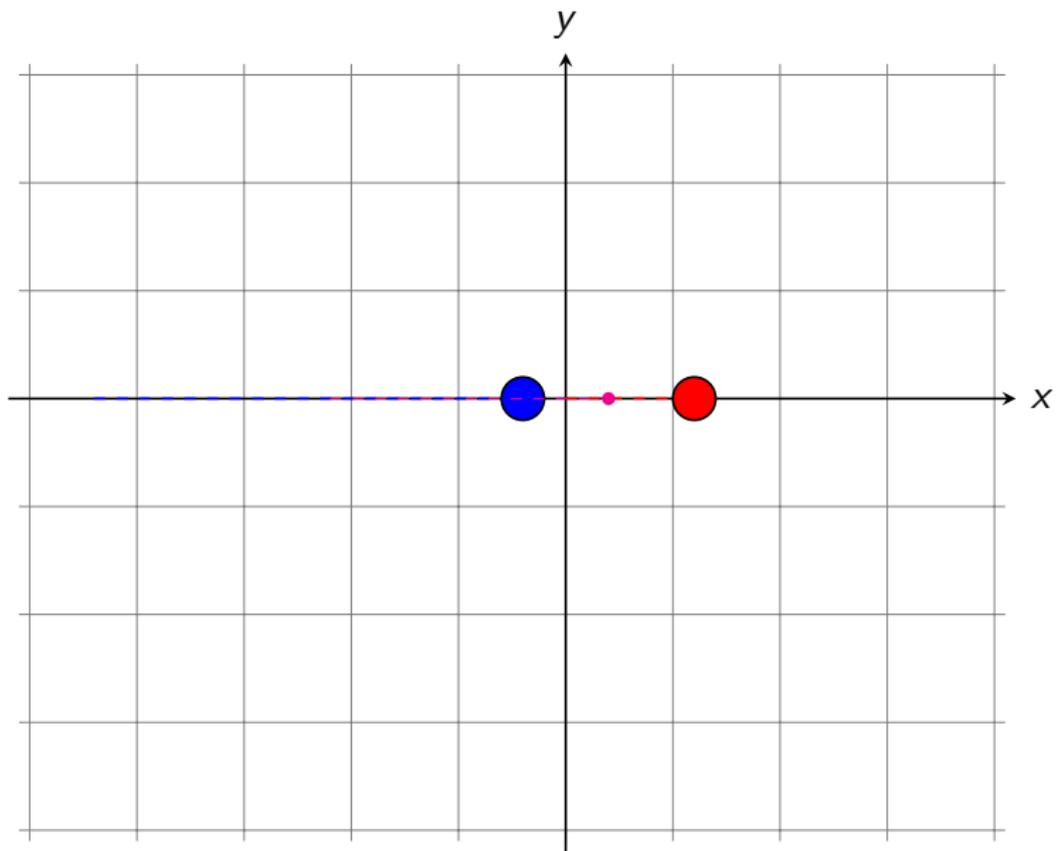
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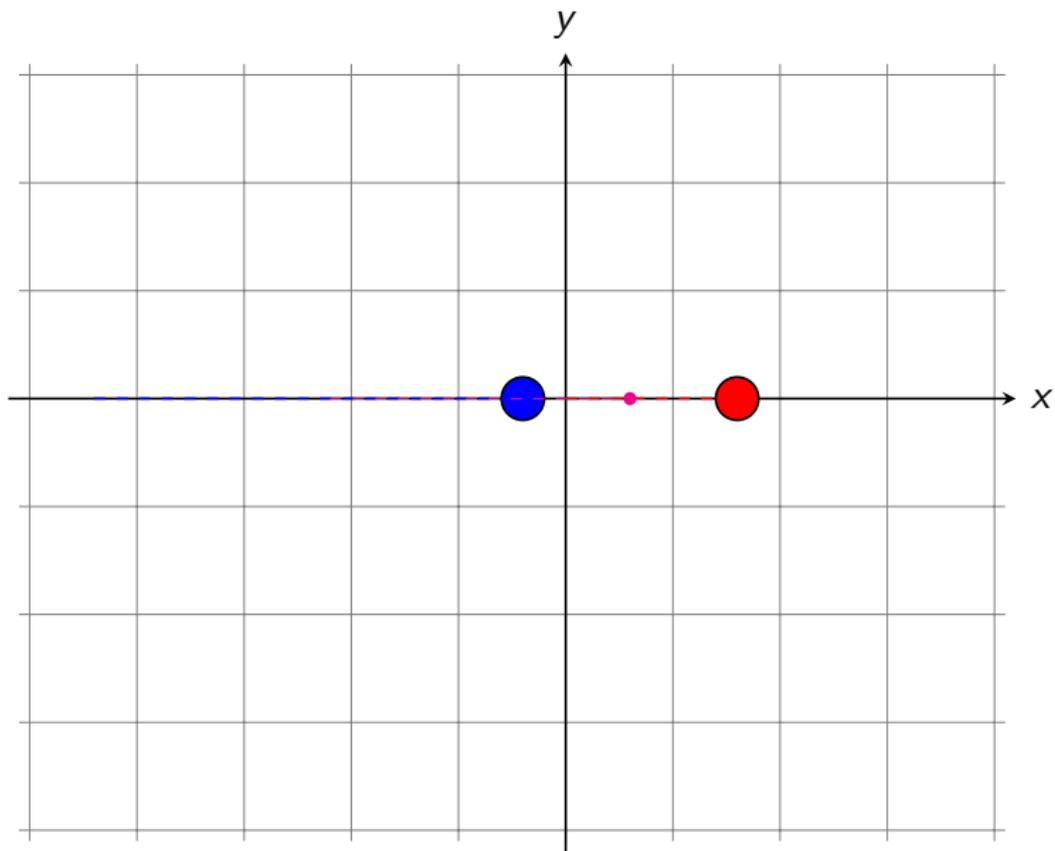
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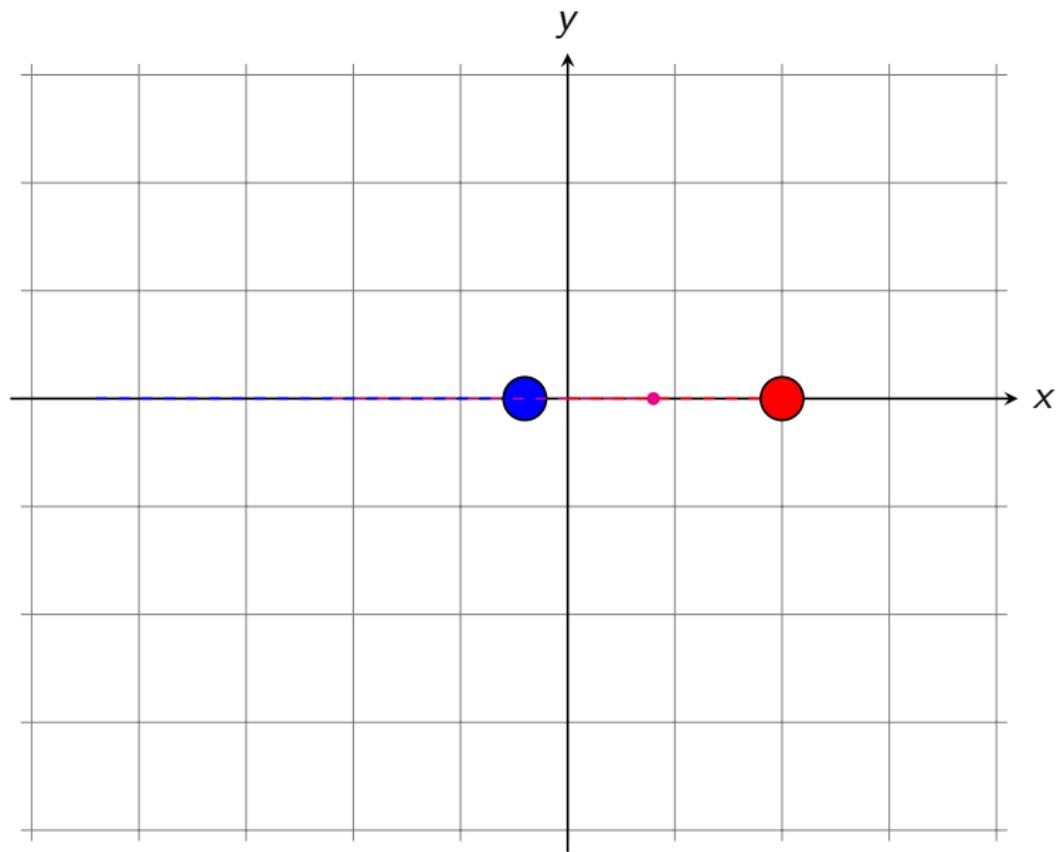
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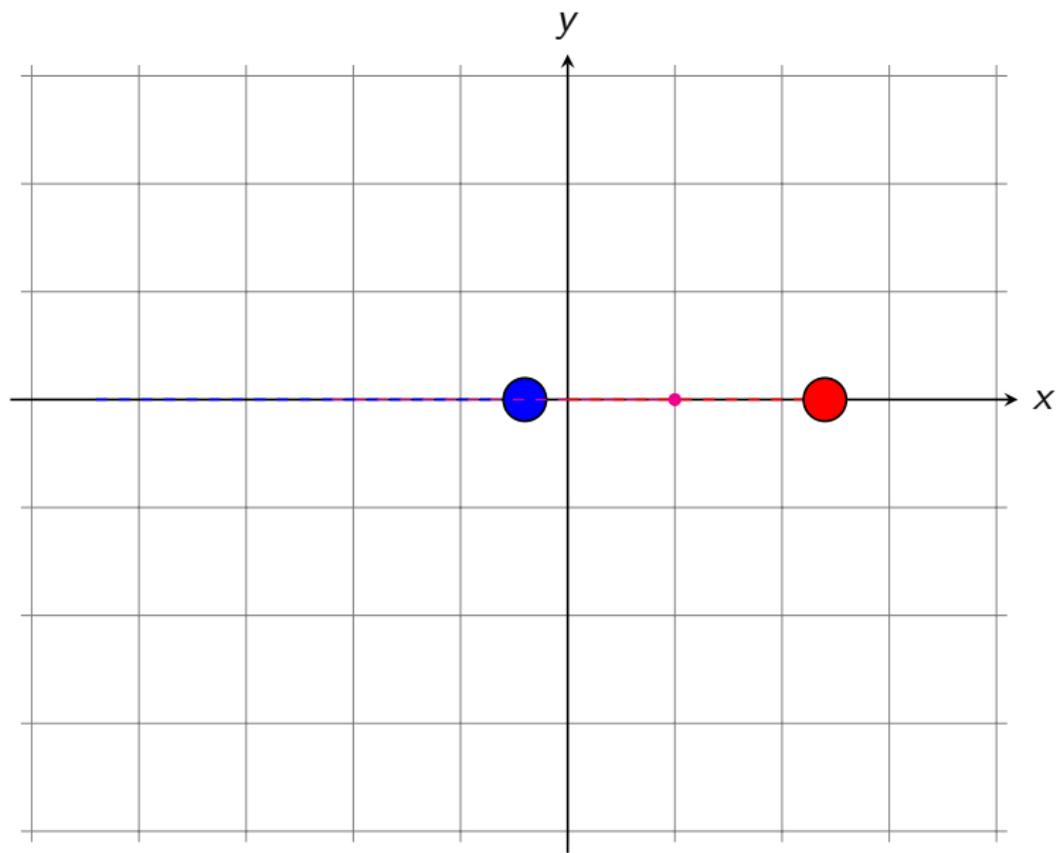
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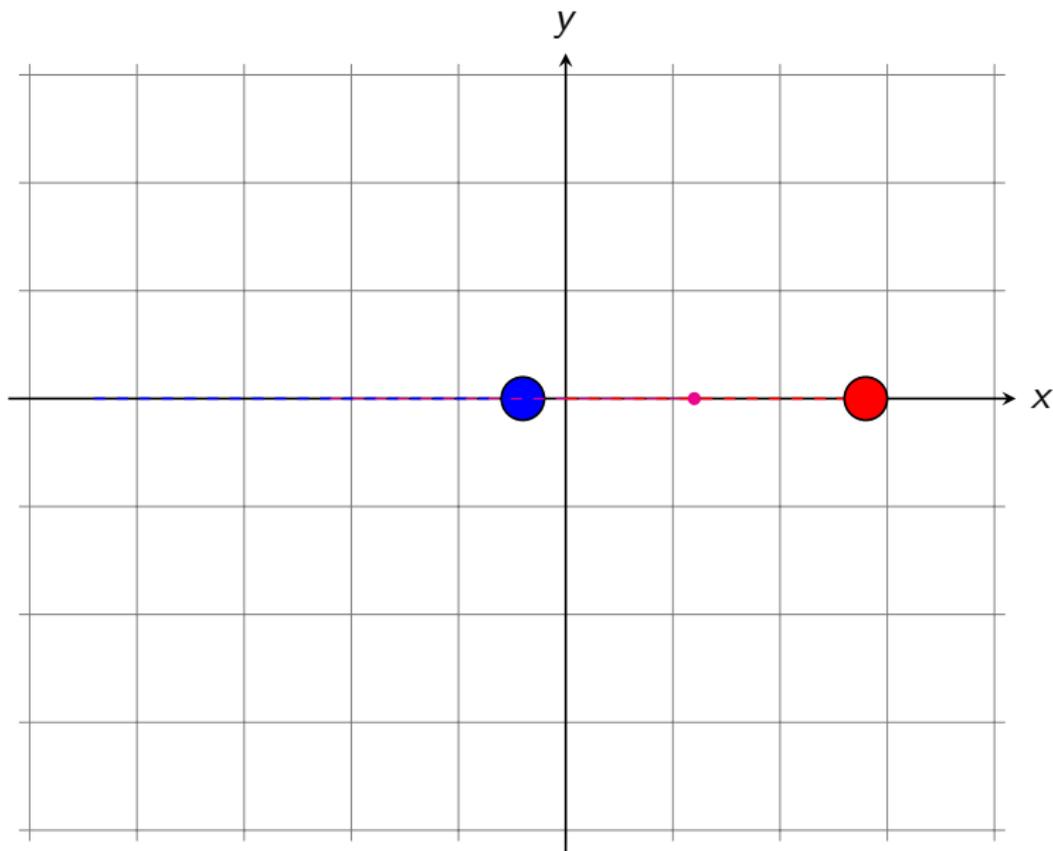
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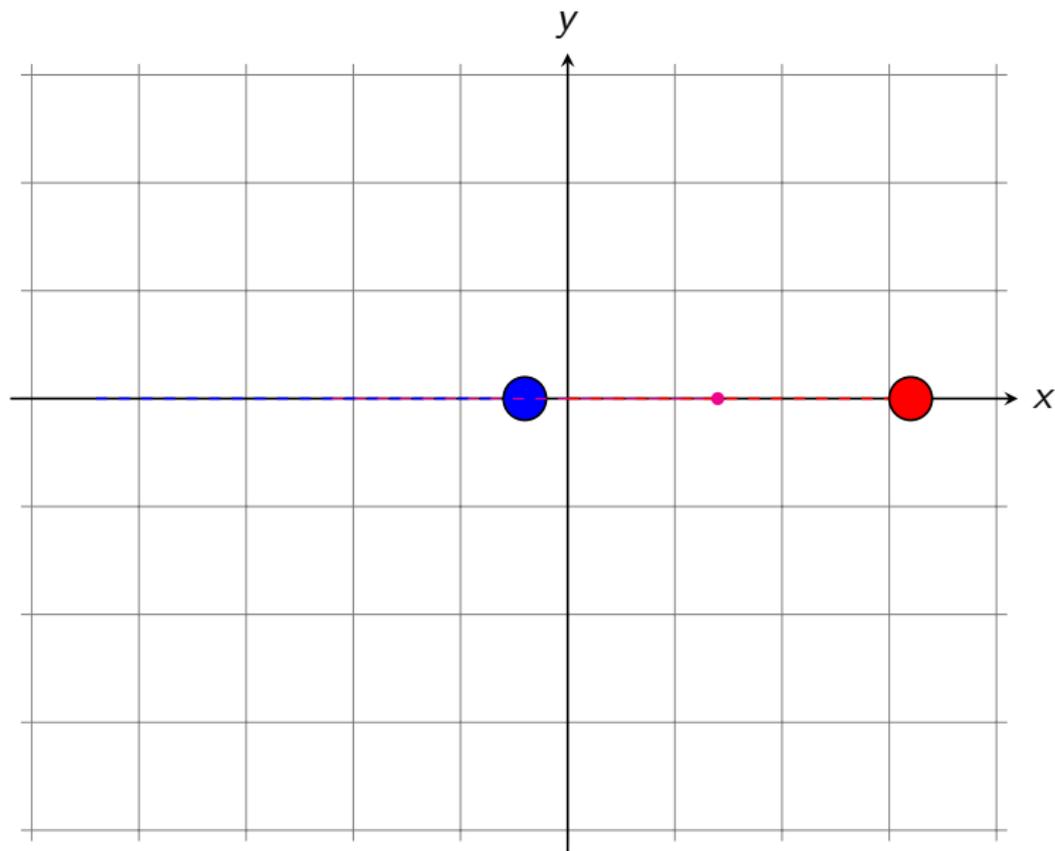
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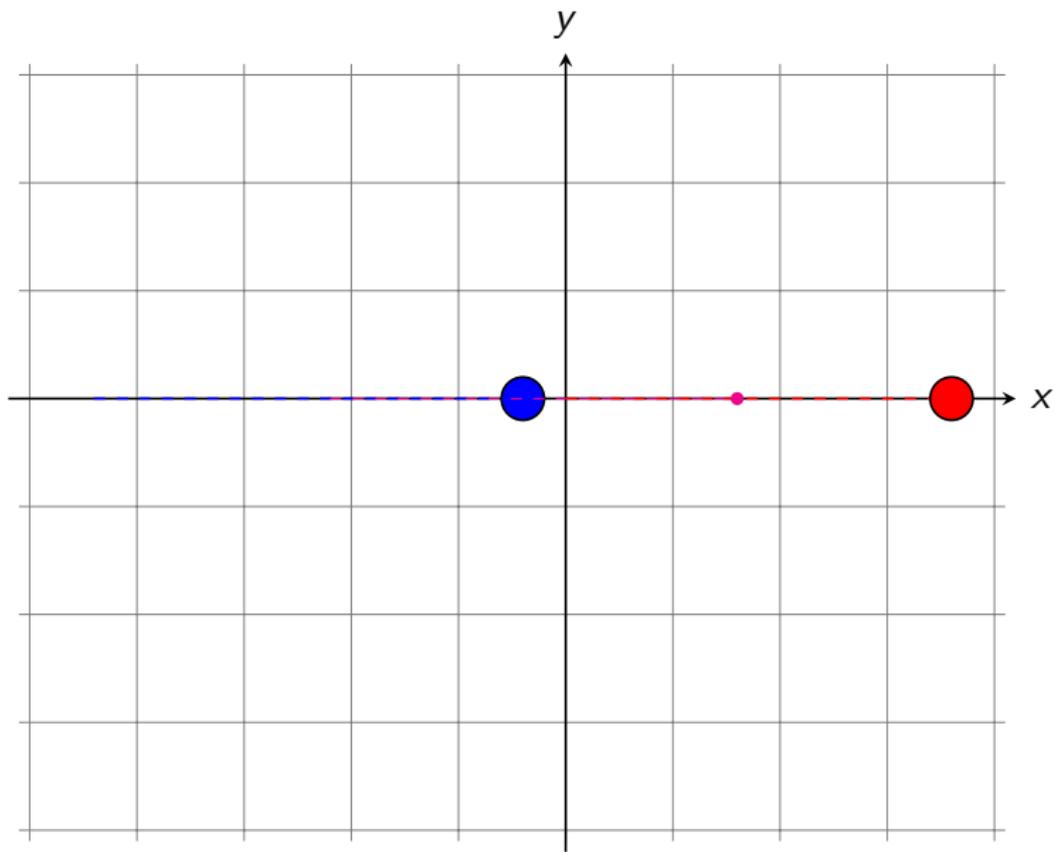
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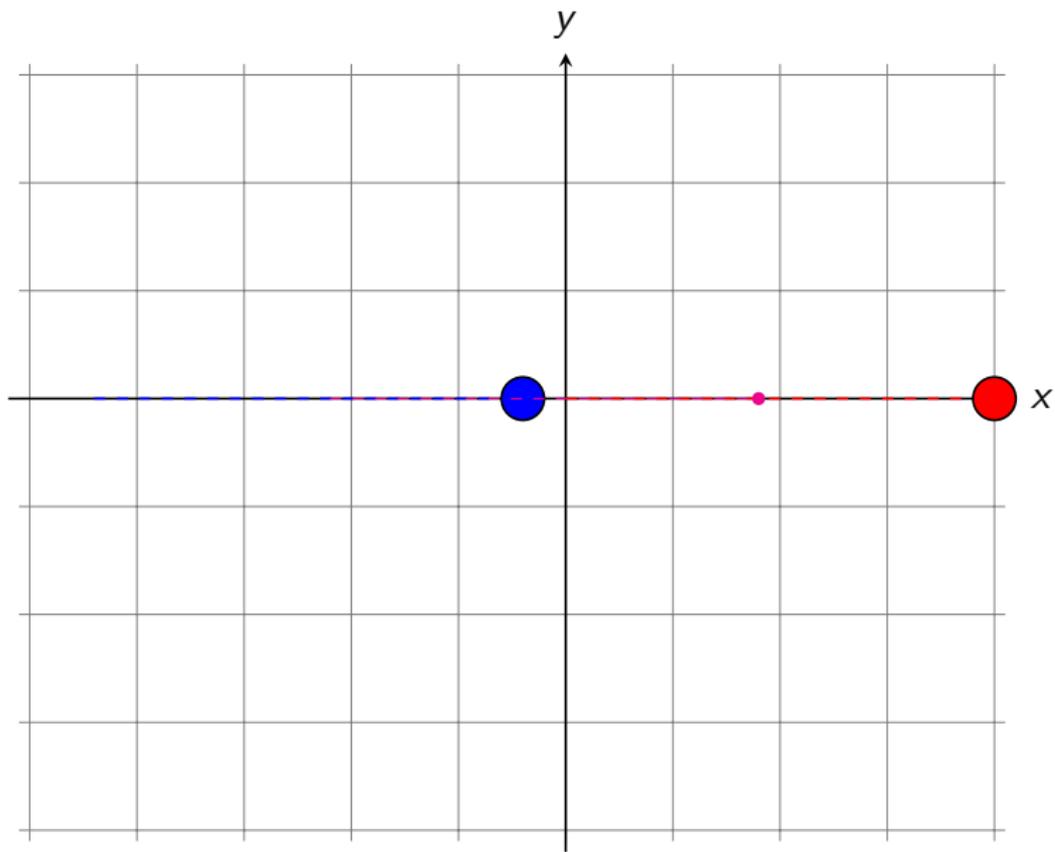
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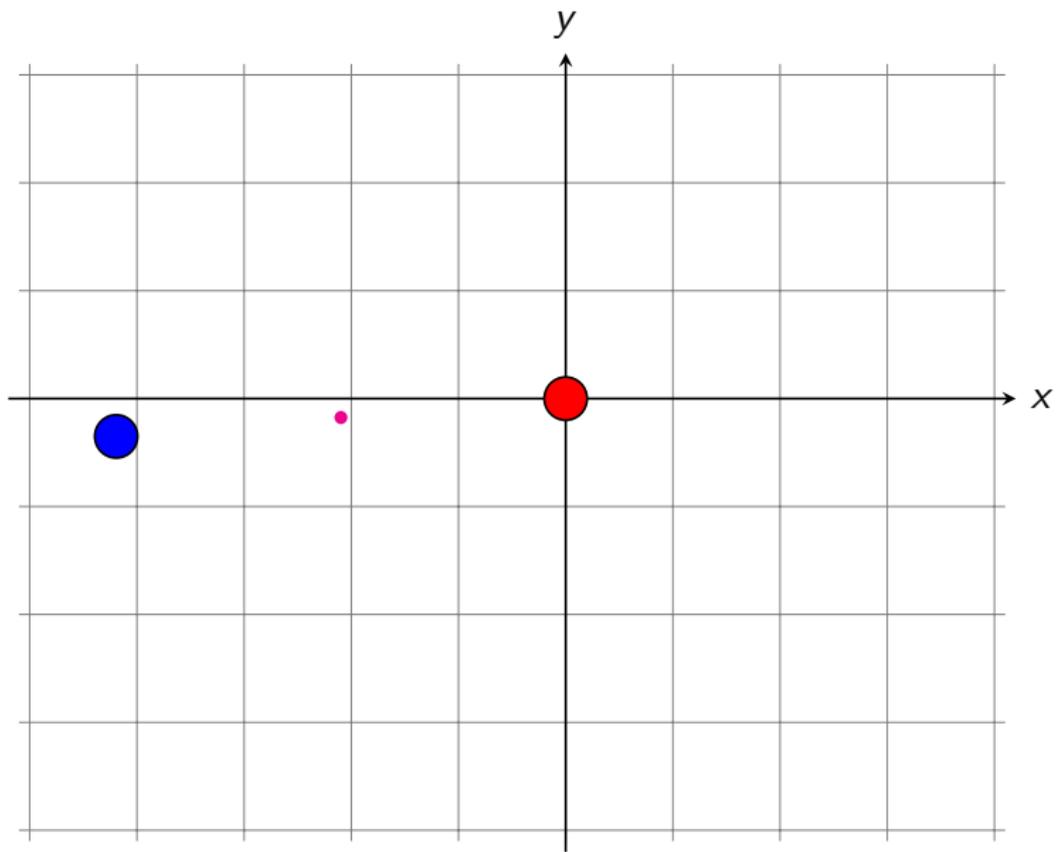
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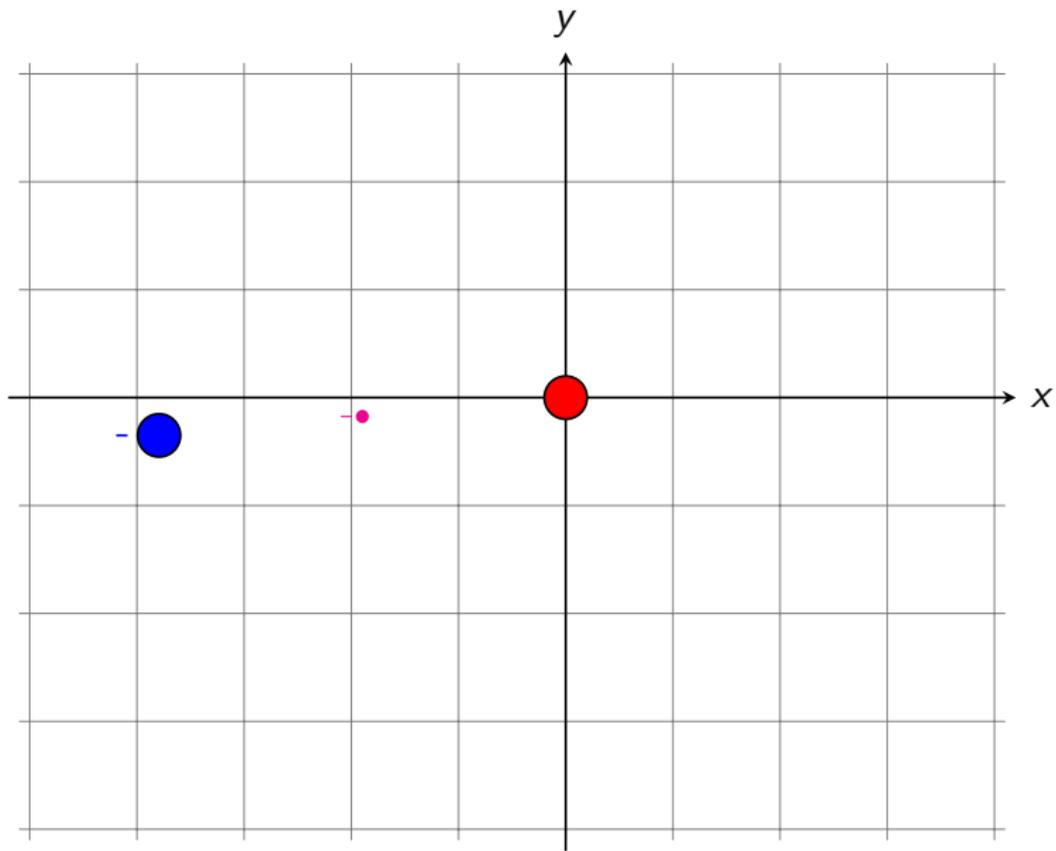
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Choc oblique



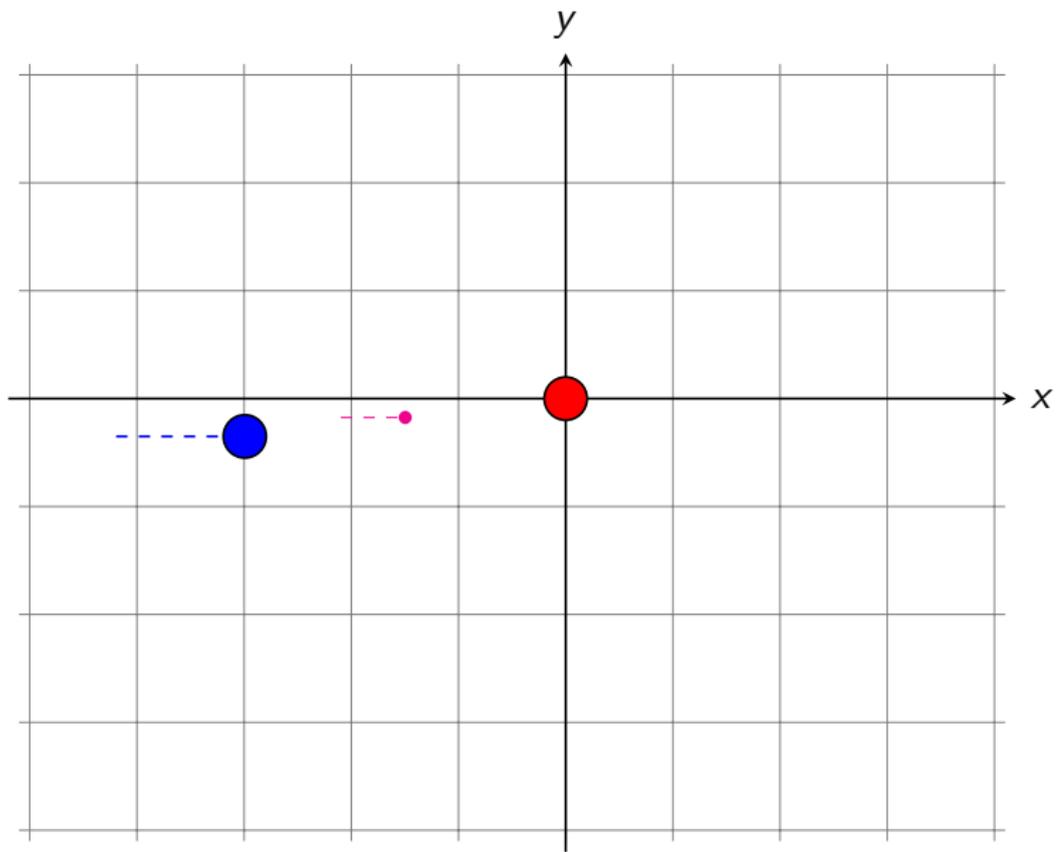
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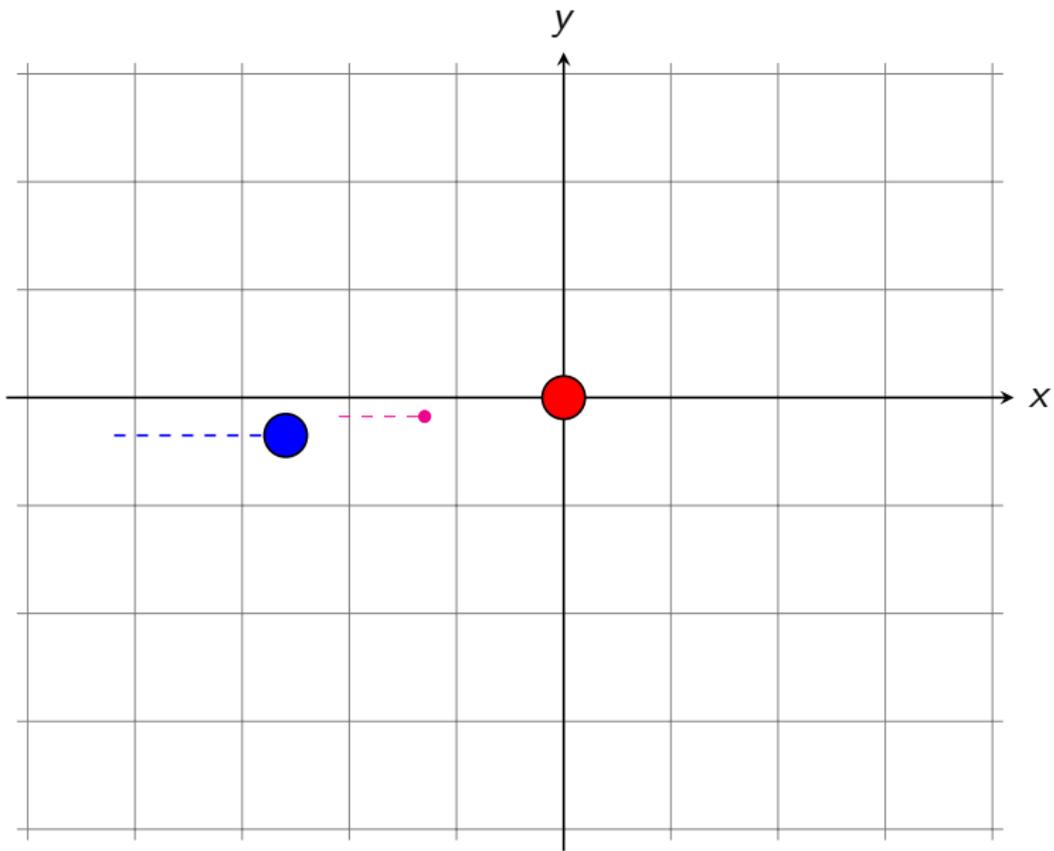
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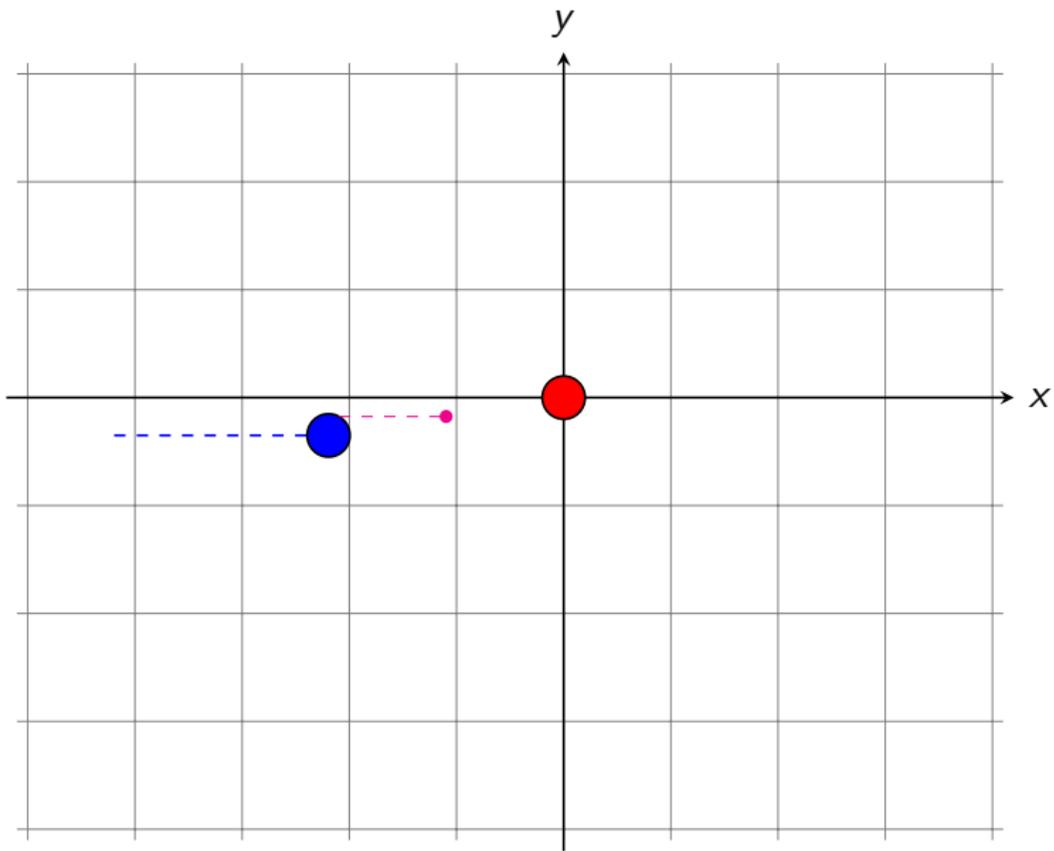
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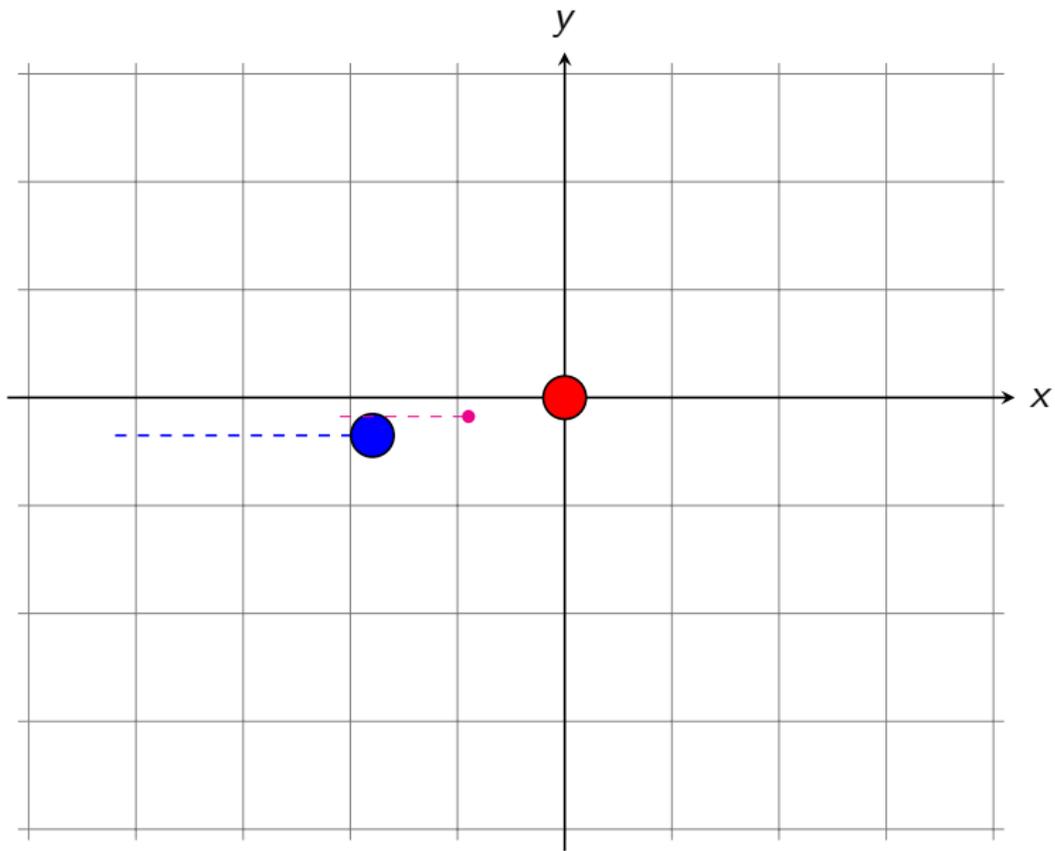
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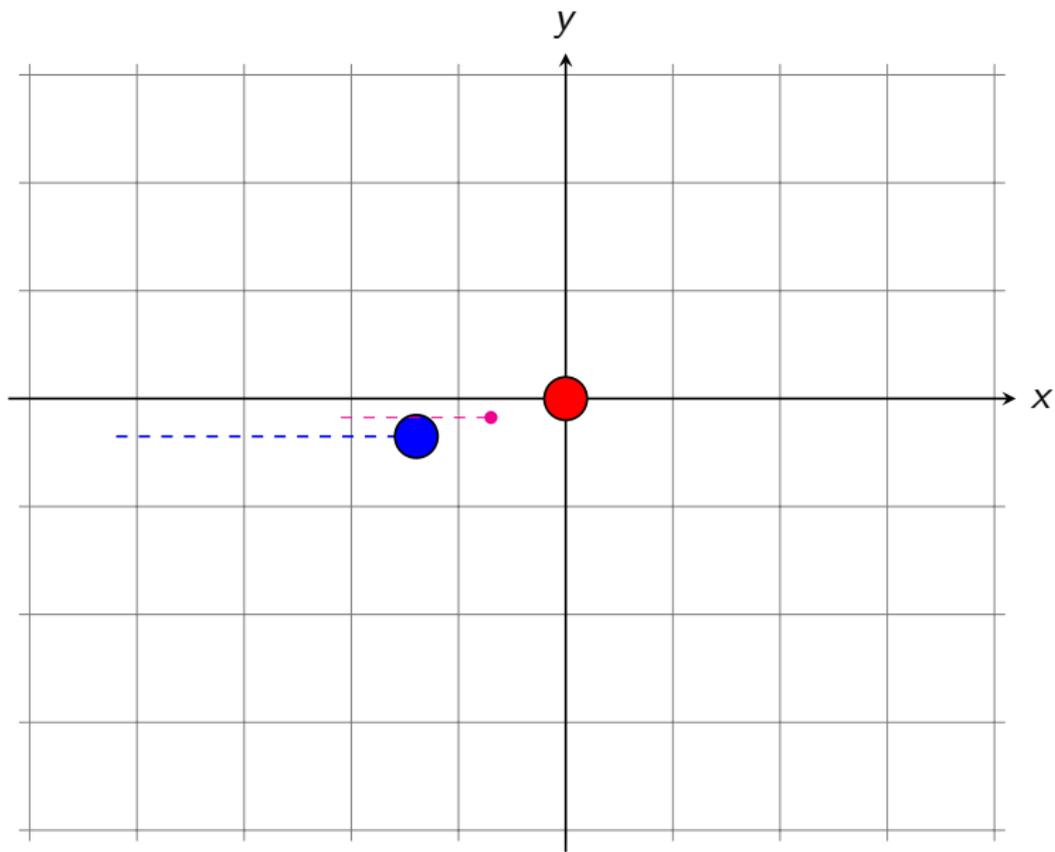
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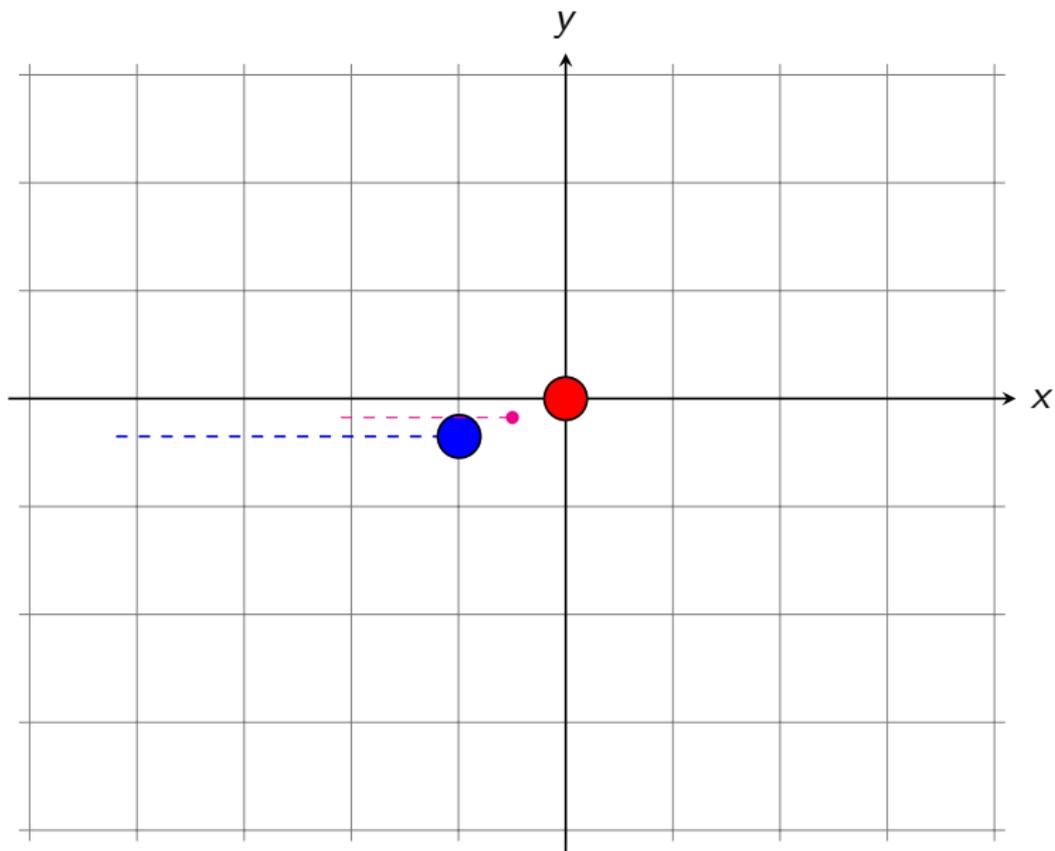
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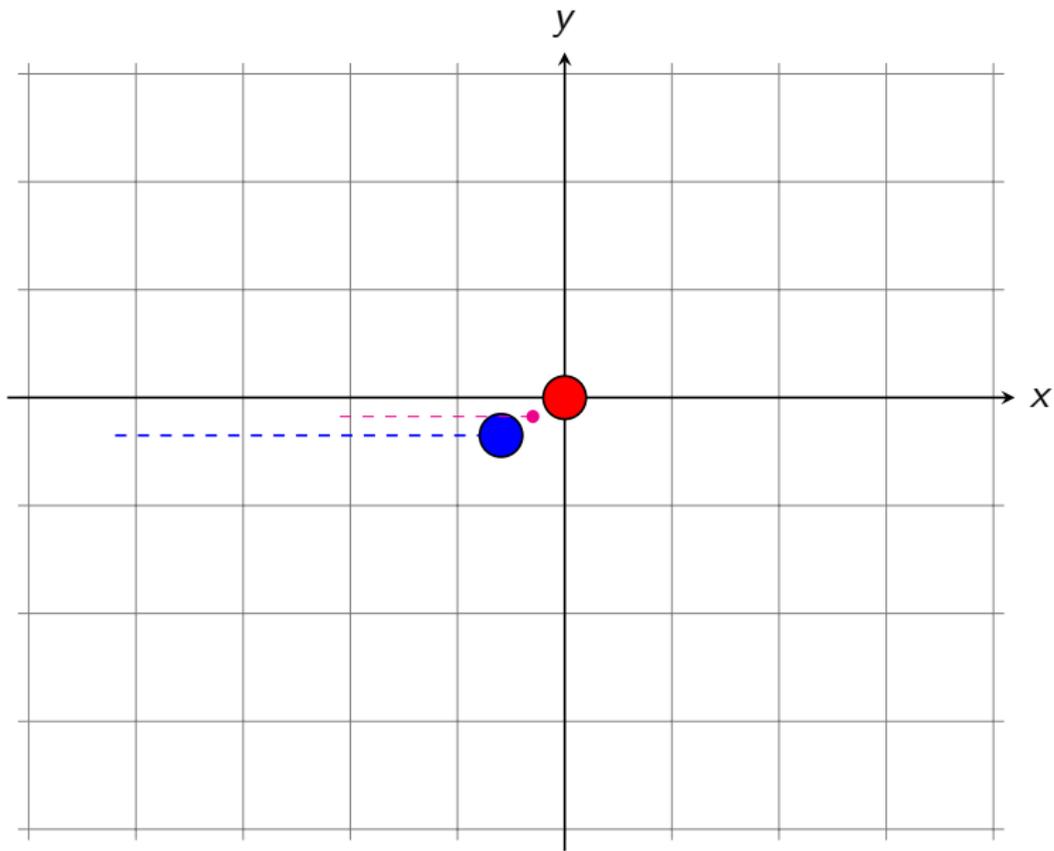
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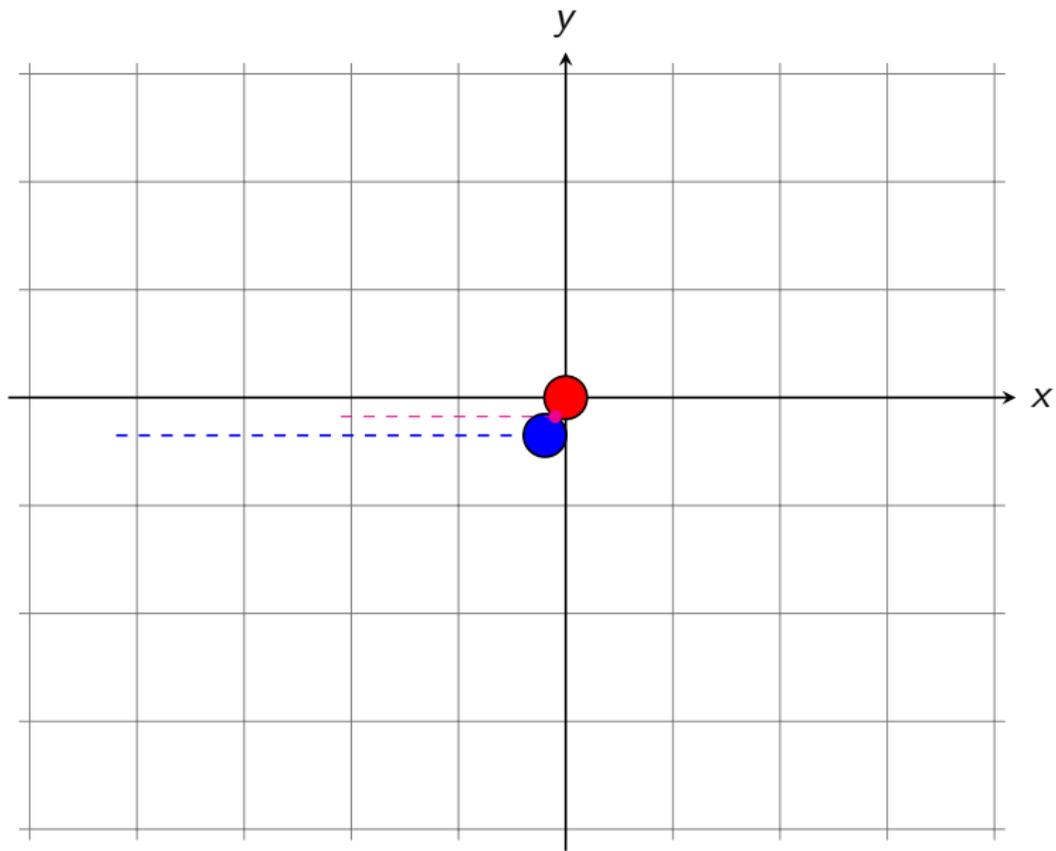
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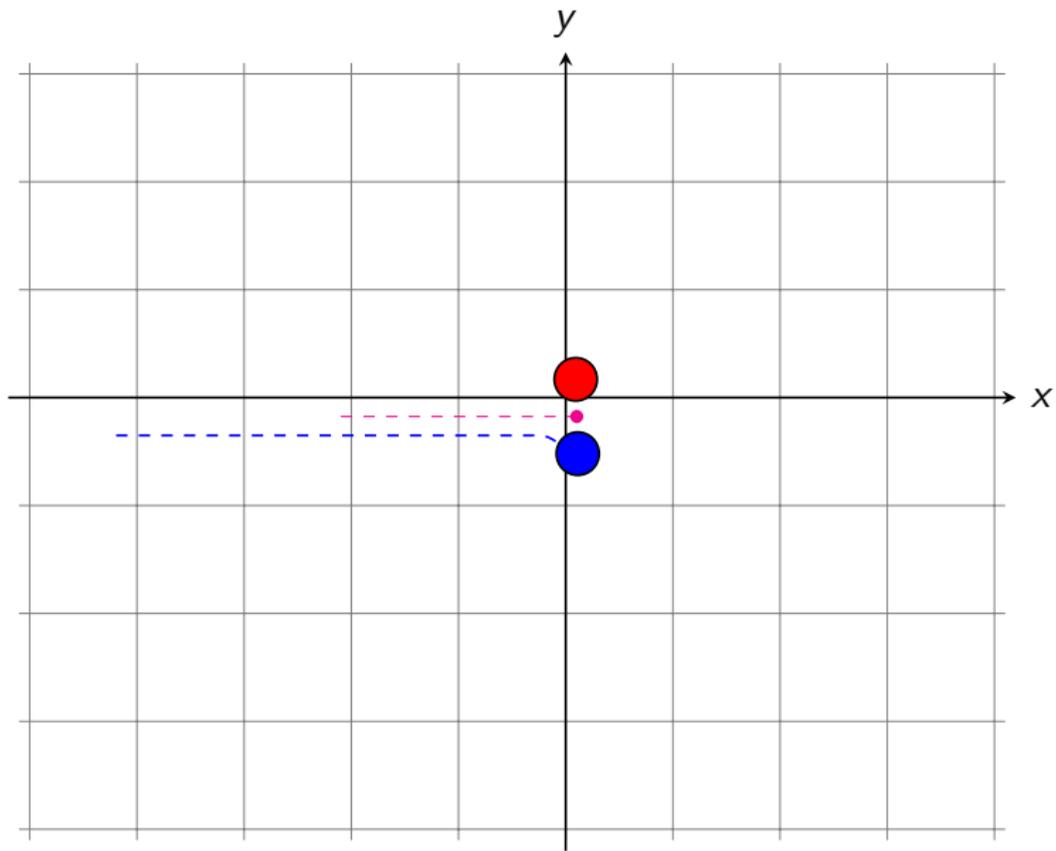
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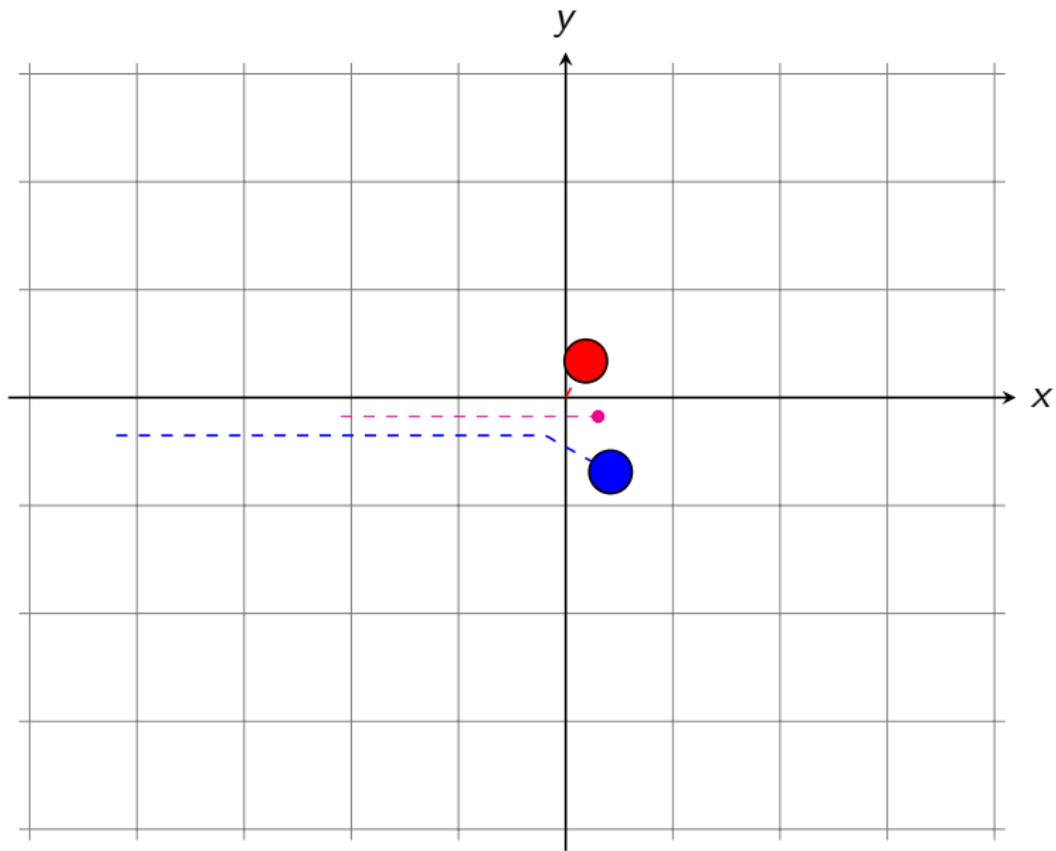
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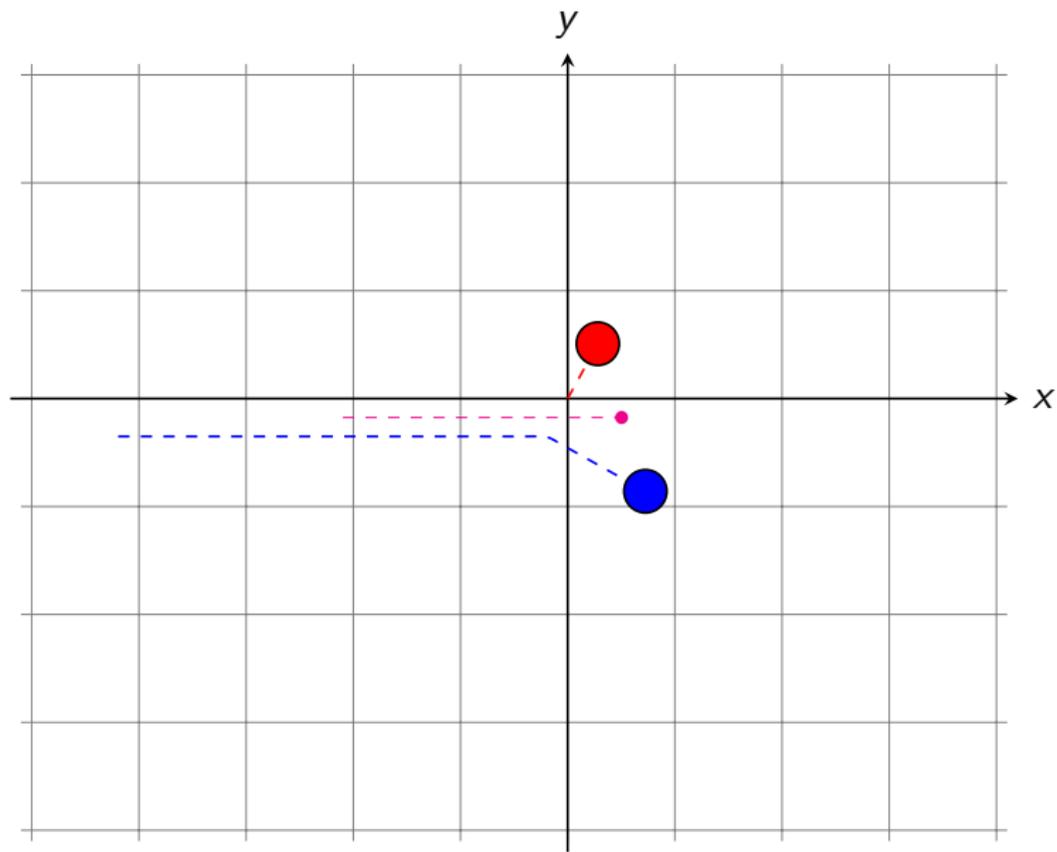
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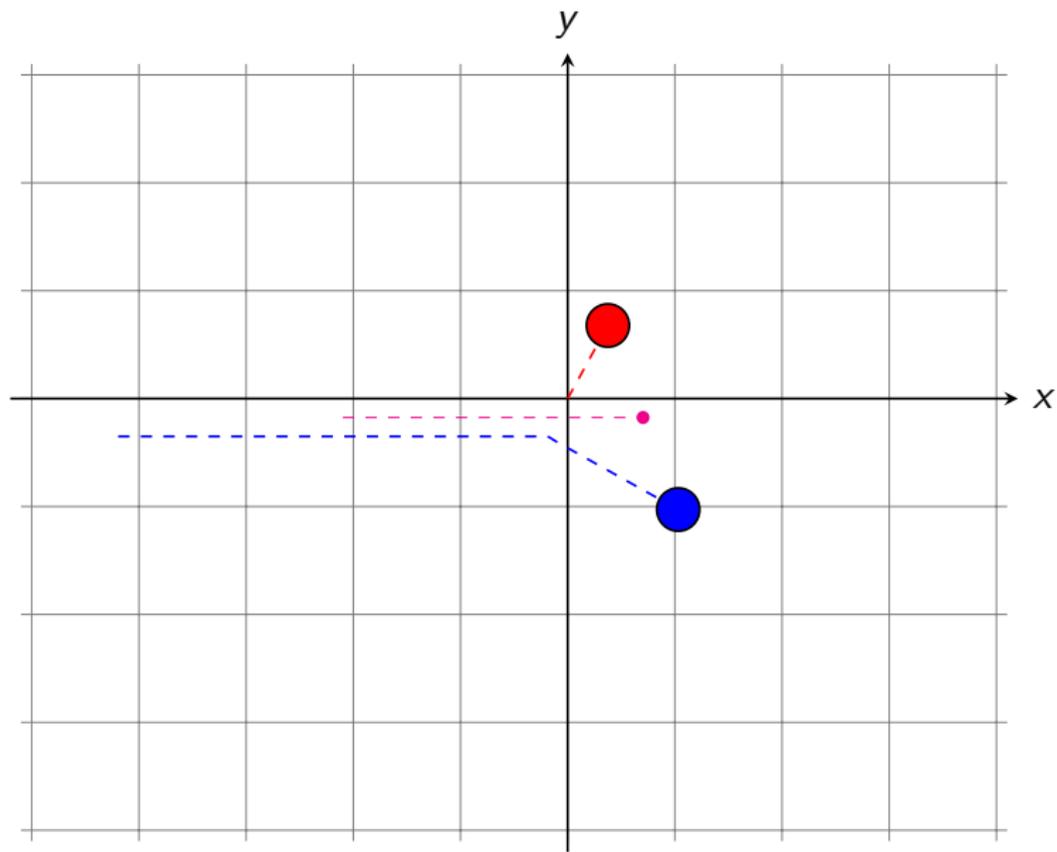
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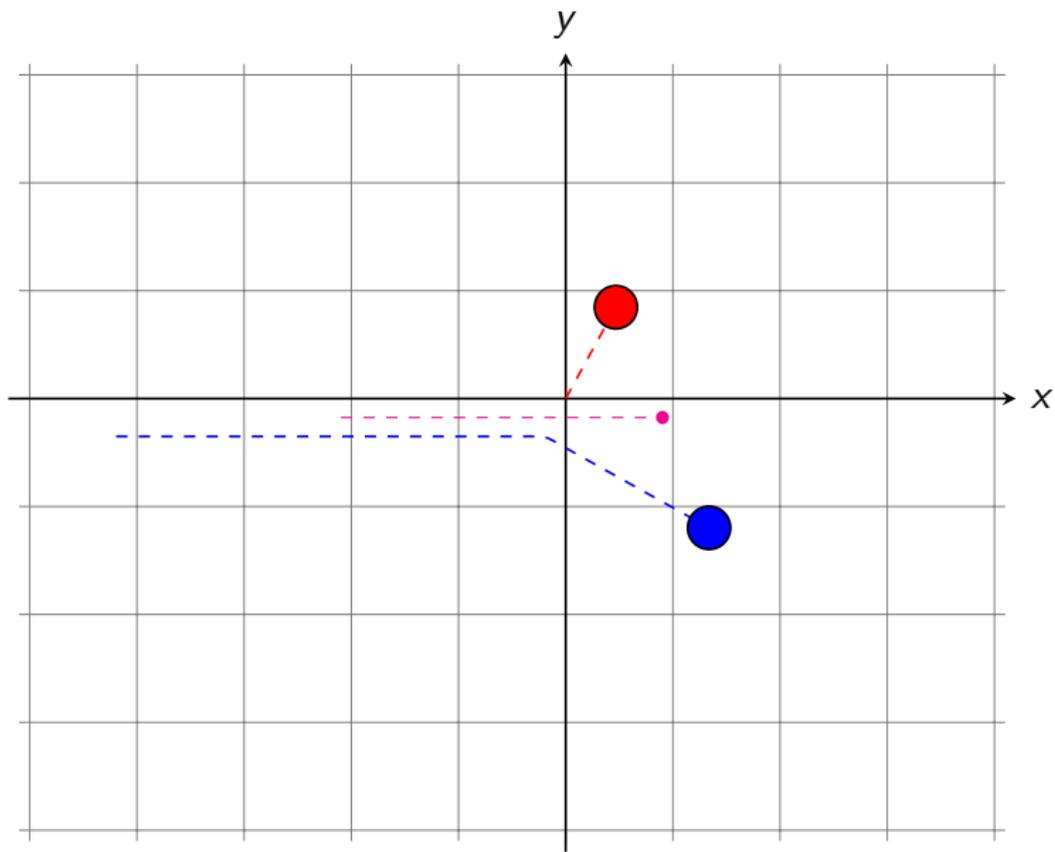
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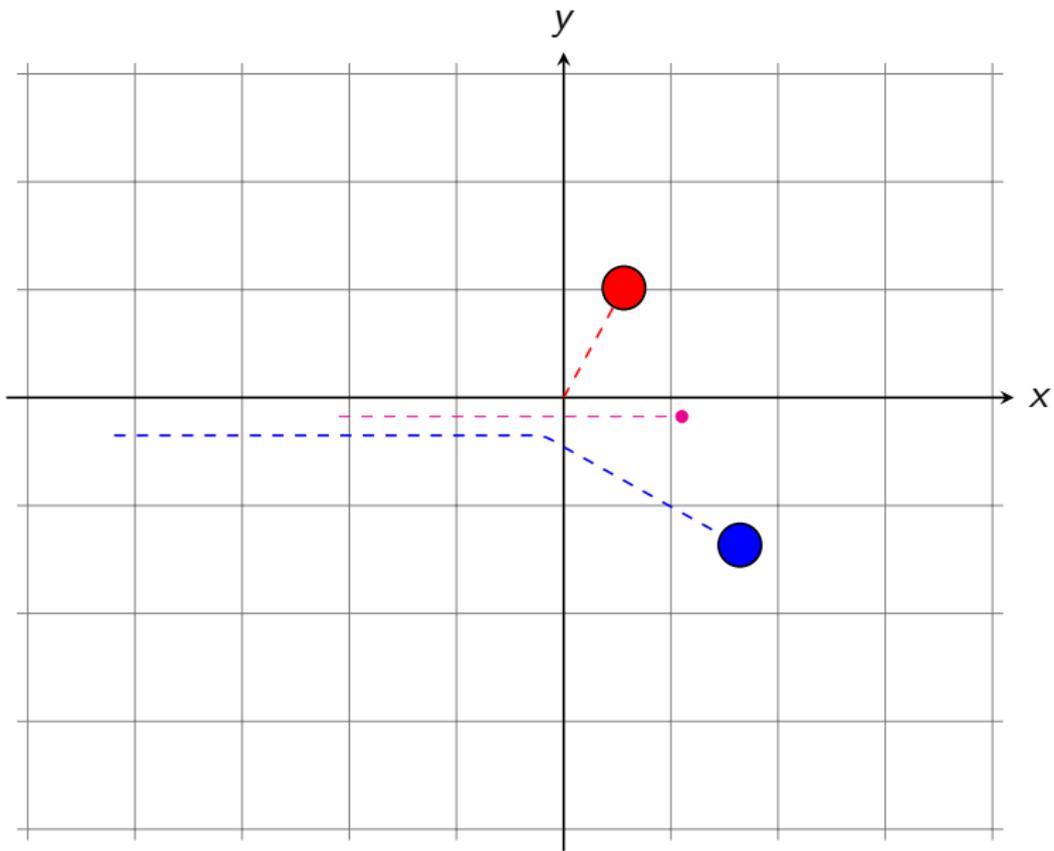
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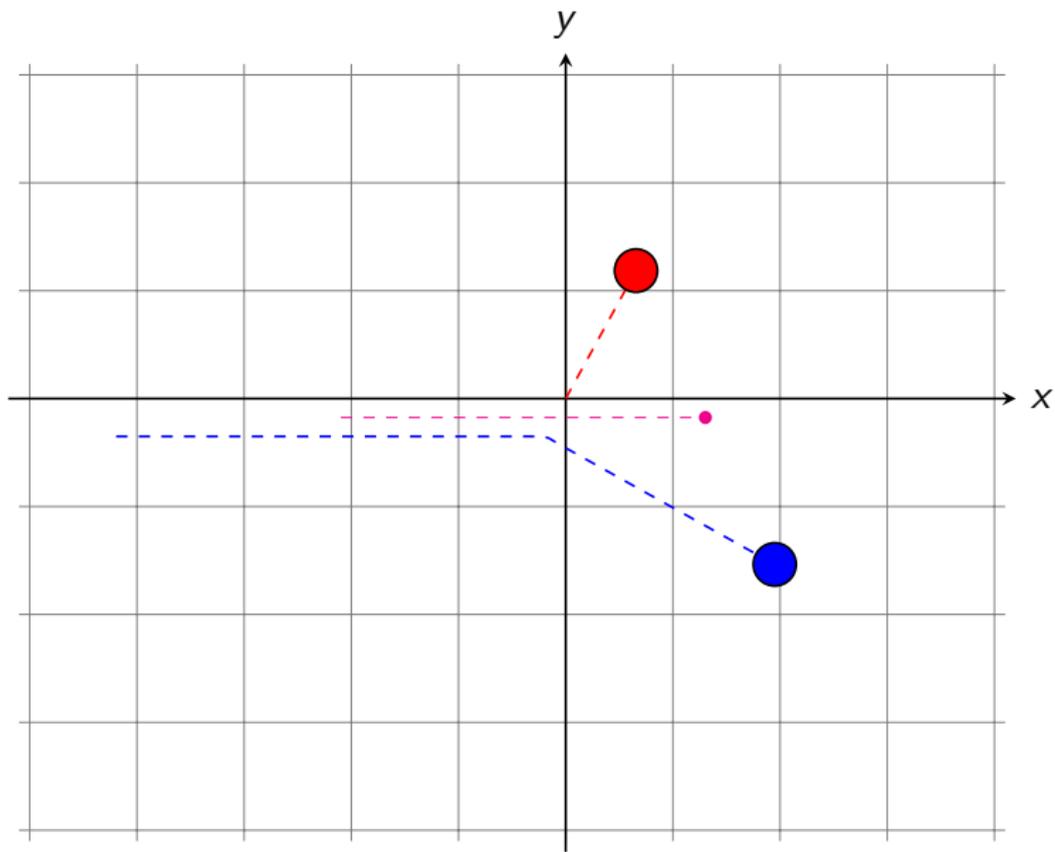
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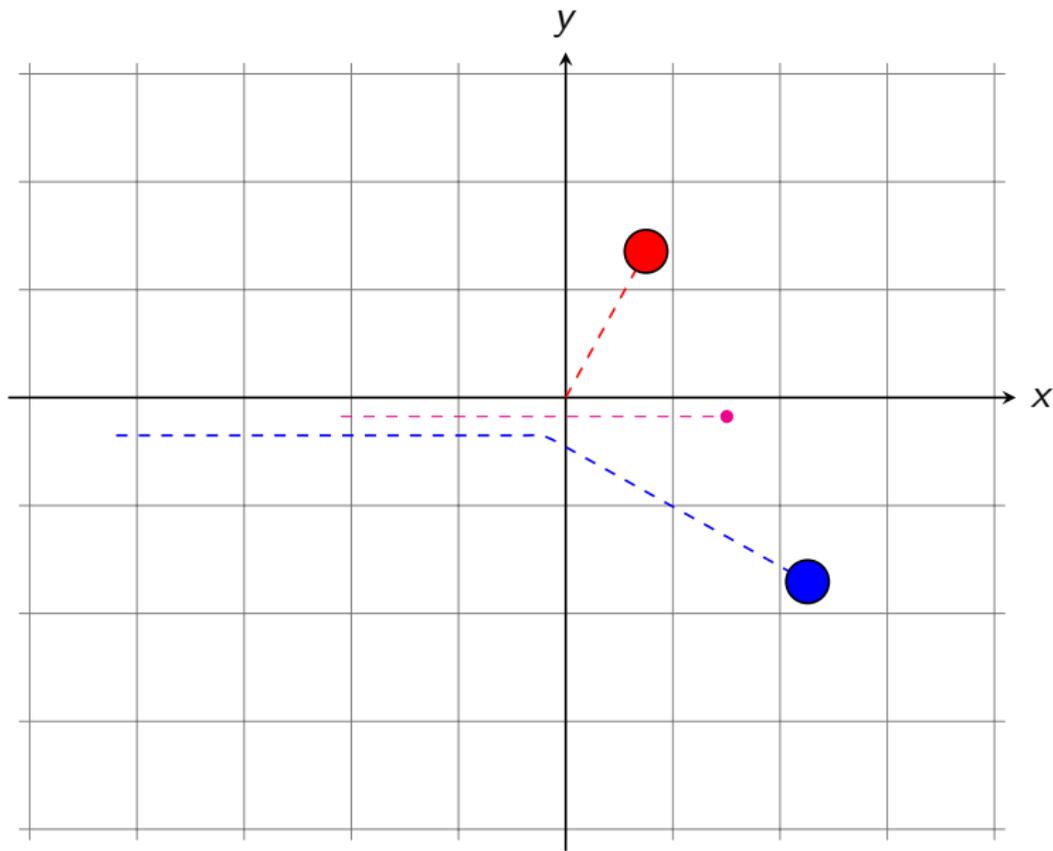
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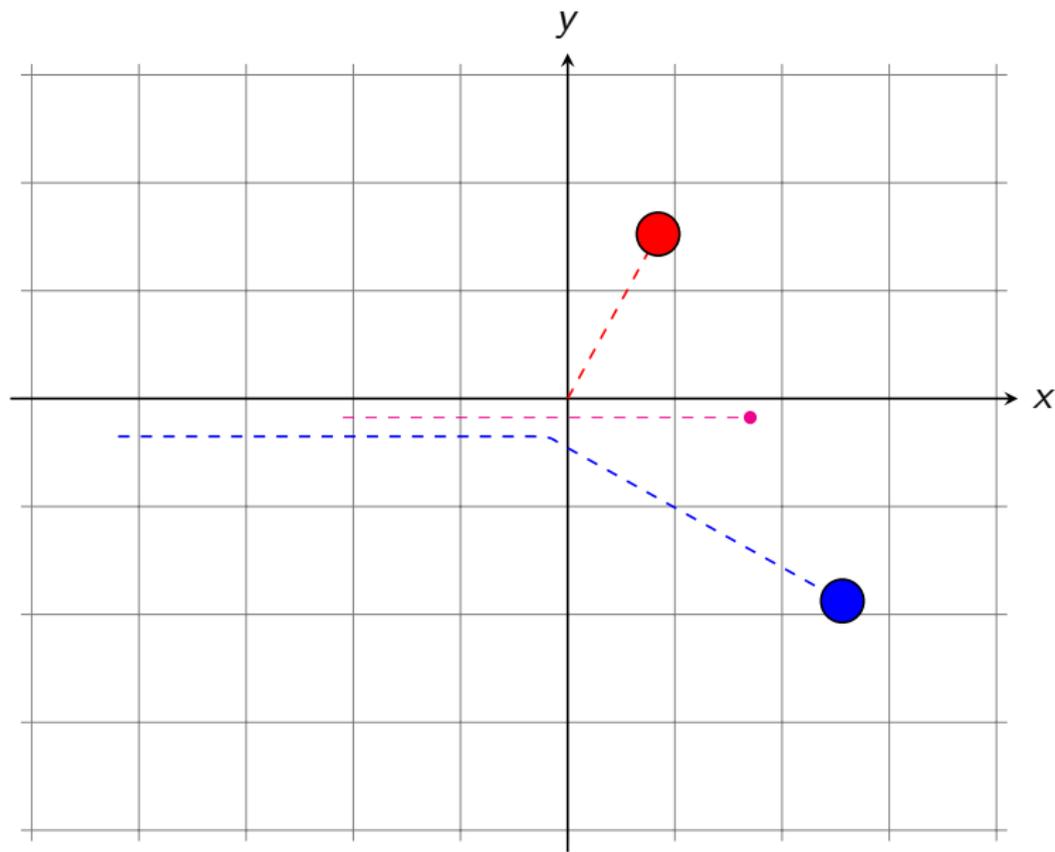
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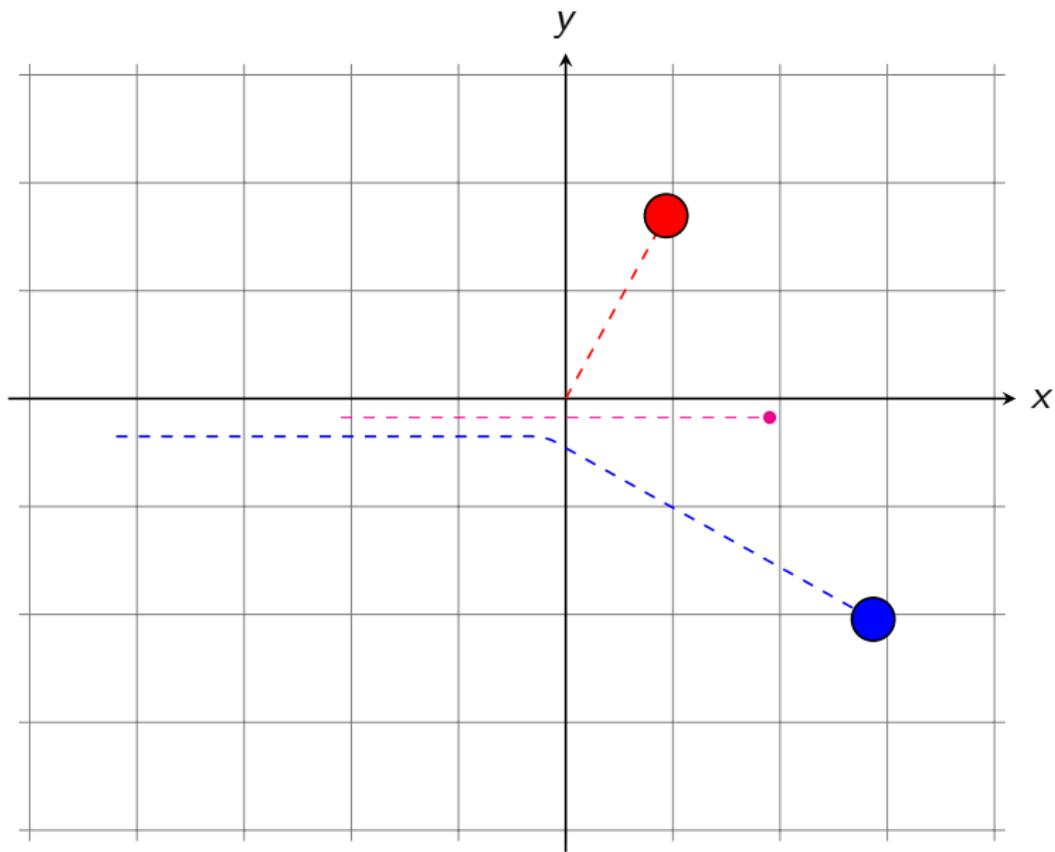
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