

Bézier-Kurven erster Ordnung

Während die Variable t das Intervall $I = [0, 1]$ durchläuft, durchläuft der Punkt P die Strecke AB in „linearer Weise“.

A
◦

B
◦

A
 $\circ$
 $t = 0$

B
 $\circ$

$$A_{t=0} \quad A_{t=0.1}$$

$$B_{\circ}$$

$$A_{t=0} \quad A_{t=0.1} \quad A_{t=0.2}$$

$$B_{\circ}$$

$$A_{t=0} \quad A_{t=0.1} \quad A_{t=0.2} \quad A_{t=0.3}$$

$$B_{\circ}$$

$$A_{t=0} \quad A_{t=0.1} \quad A_{t=0.2} \quad A_{t=0.3} \quad A_{t=0.4}$$

$$B_{\circ}$$

A

$t = 0$ $t = 0.1$ $t = 0.2$ $t = 0.3$ $t = 0.4$ $t = 0.5$ $t = 0.6$

$$B$$

A
 $t = 0$

$t = 0.1$

$t = 0.2$

$t = 0.3$

$t = 0.4$

$t = 0.5$

$t = 0.6$

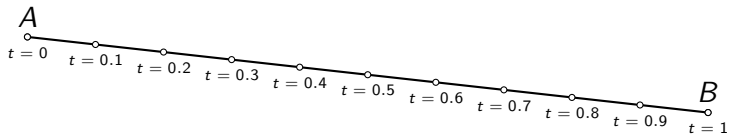
$t = 0.7$

$t = 0.8$

B
 $t = 0$

A
 $t=0$ $t=0.1$ $t=0.2$ $t=0.3$ $t=0.4$ $t=0.5$ $t=0.6$ $t=0.7$ $t=0.8$ $t=0.9$ B

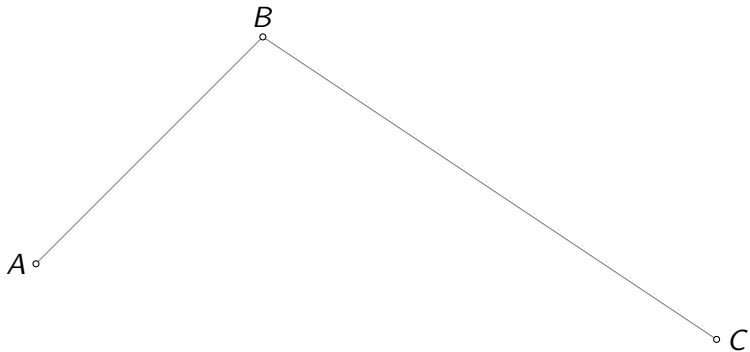
A
 $t = 0$ $t = 0.1$ $t = 0.2$ $t = 0.3$ $t = 0.4$ $t = 0.5$ $t = 0.6$ $t = 0.7$ $t = 0.8$ $t = 0.9$ B
 $t = 1$

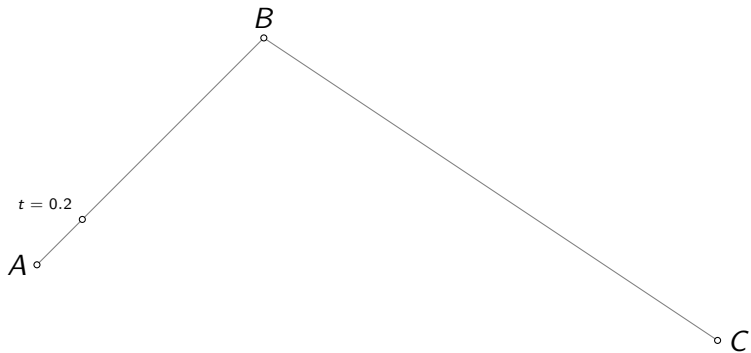


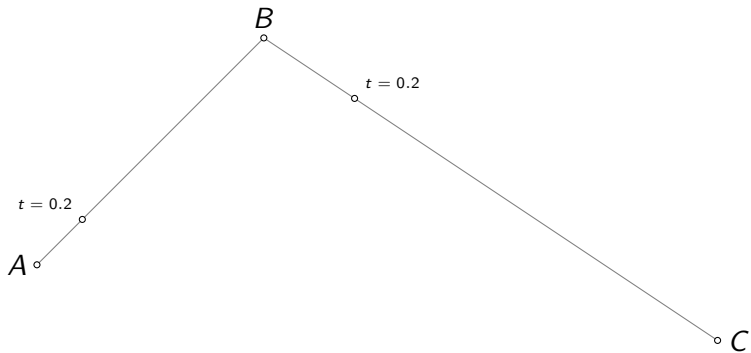
Bézier-Kurven zweiter Ordnung

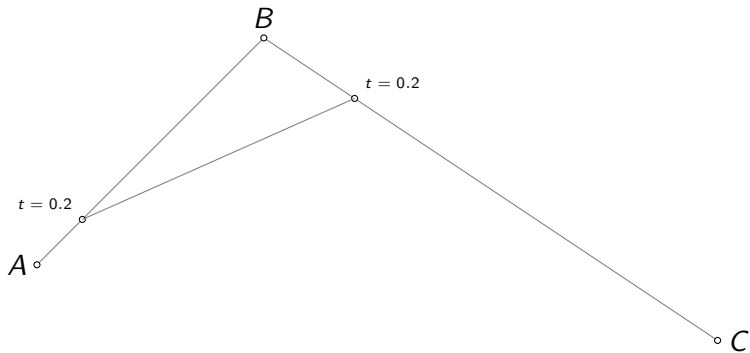
Neben den Endpunkten A und C muss ein dritter Punkt B (*Stützpunkt*) gegeben sein.

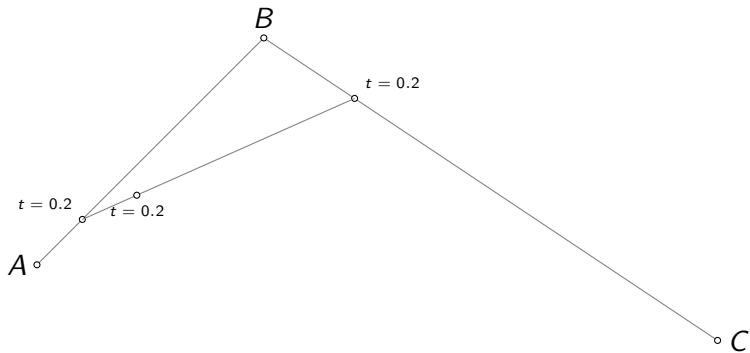
Während die Variable t das Intervall $I = [0, 1]$ durchläuft, durchlaufen die Punkte P und Q die Strecken AB und BC . Gleichzeitig durchläuft der Punkt R die Strecke PQ .

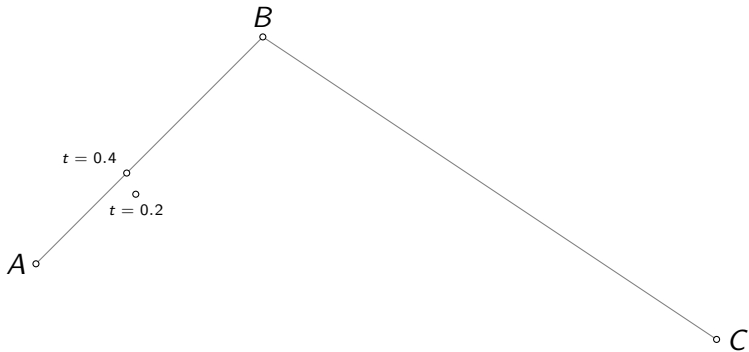


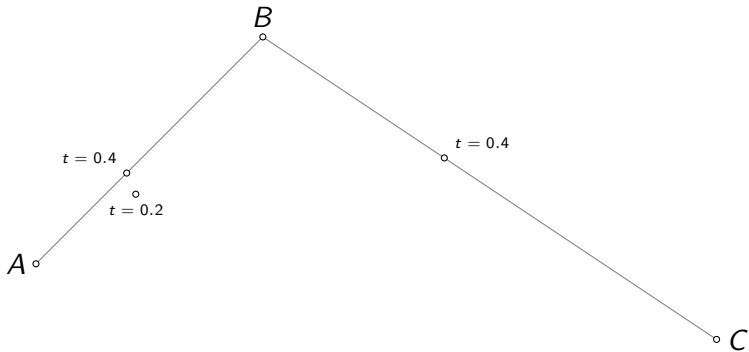


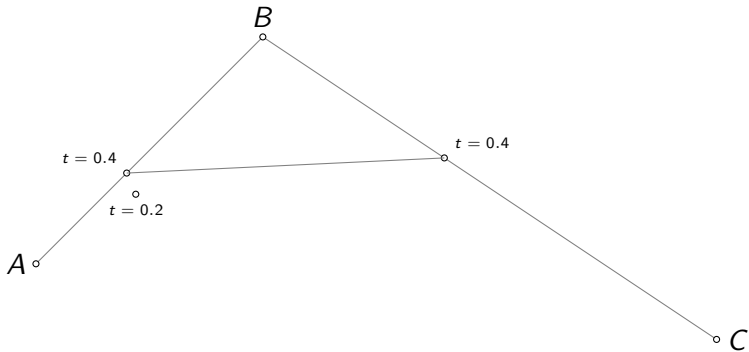


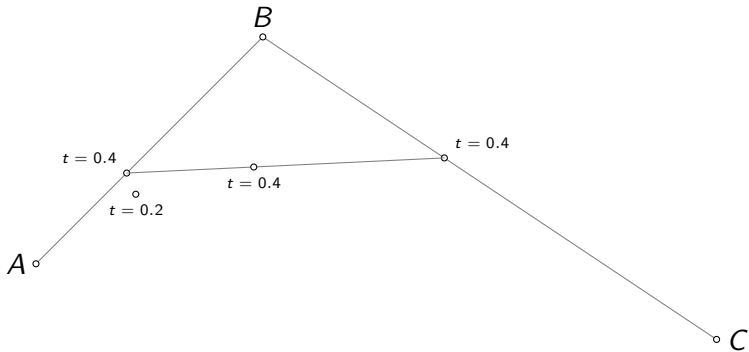


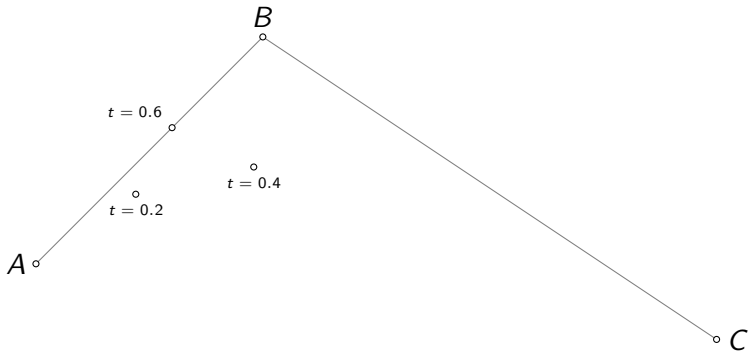


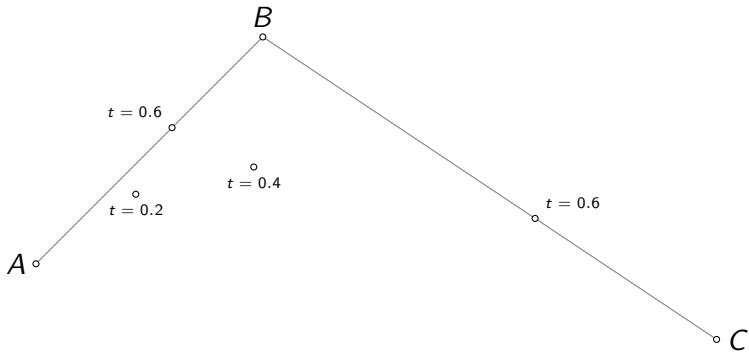


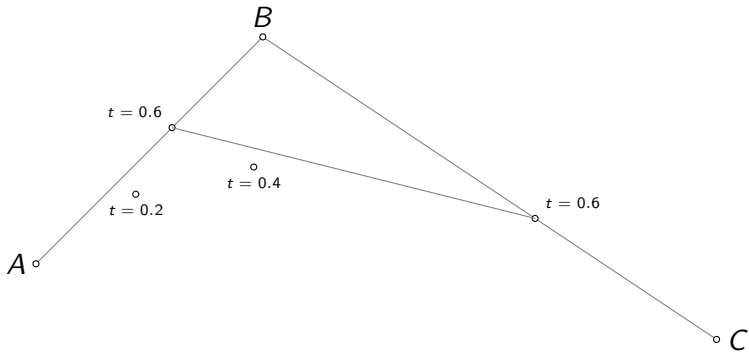


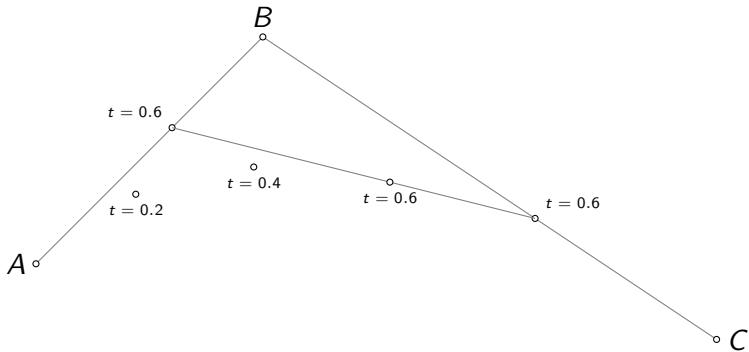


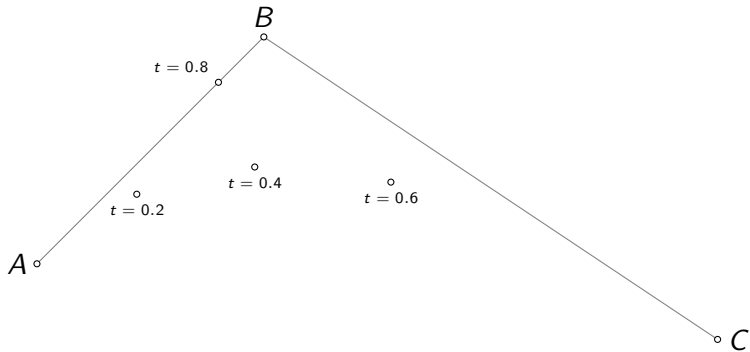


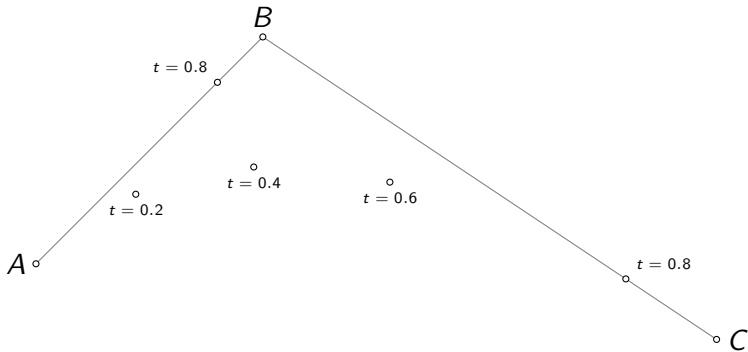


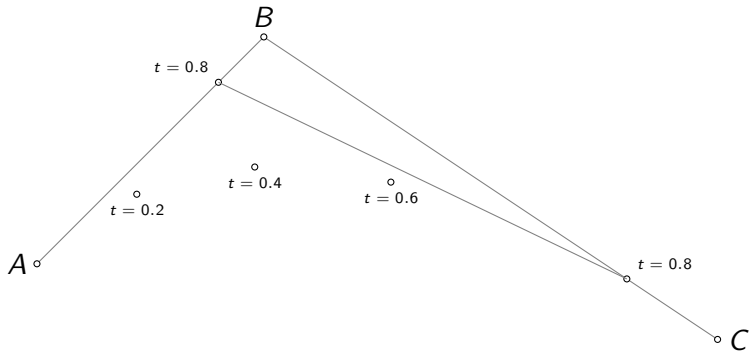


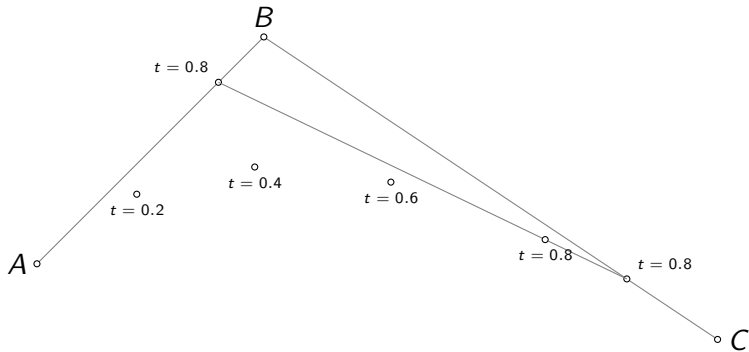


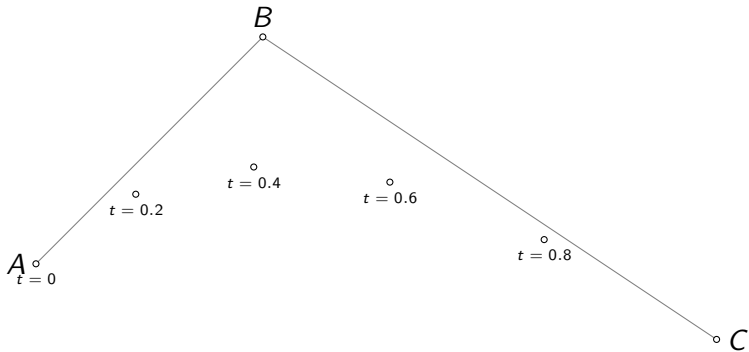


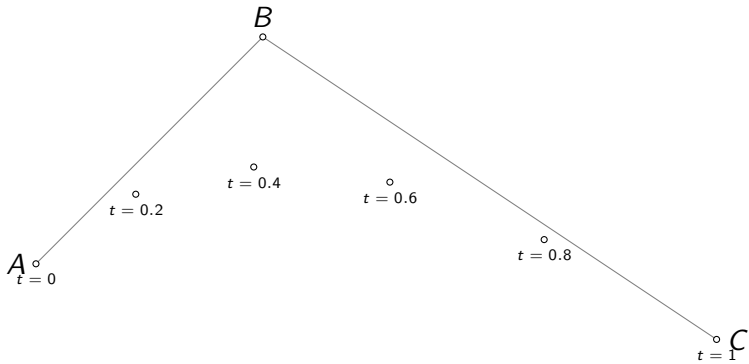


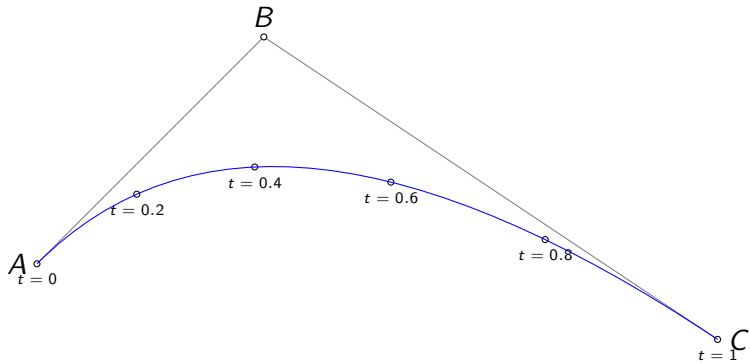








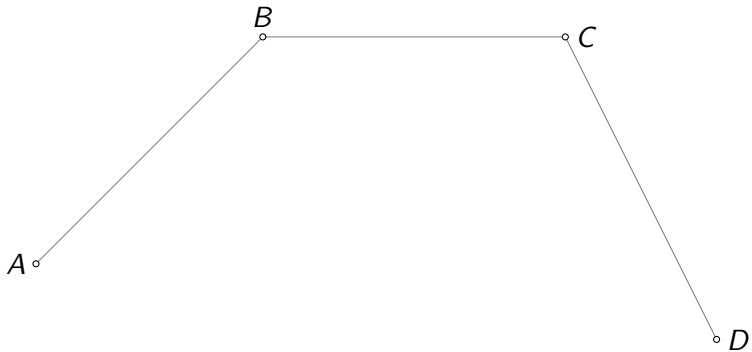




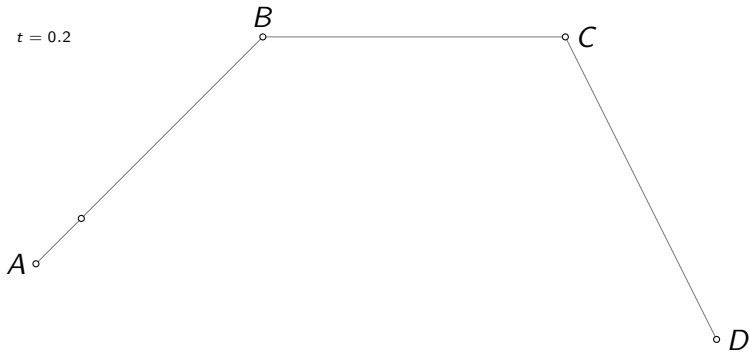
Bézier-Kurven dritter Ordnung

Neben den Endpunkten A und D müssen zwei Stützpunkte B und C gegeben sein.

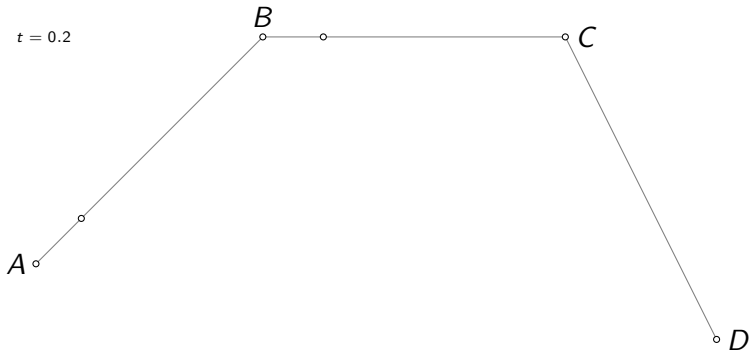
Während die Variable t das Intervall $I = [0, 1]$ durchläuft, durchlaufen die Punkte P , Q und R die Strecken AB , BC und CD . Gleichzeitig durchlaufen die Punkte S und T die Strecken PQ und QR . Schliesslich durchläuft der Punkt U die Strecke ST .



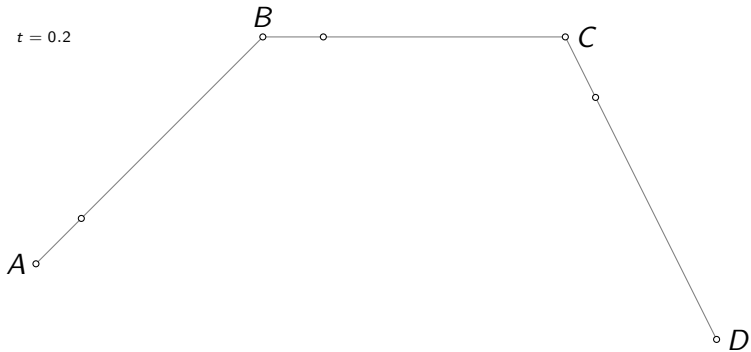
$t = 0.2$



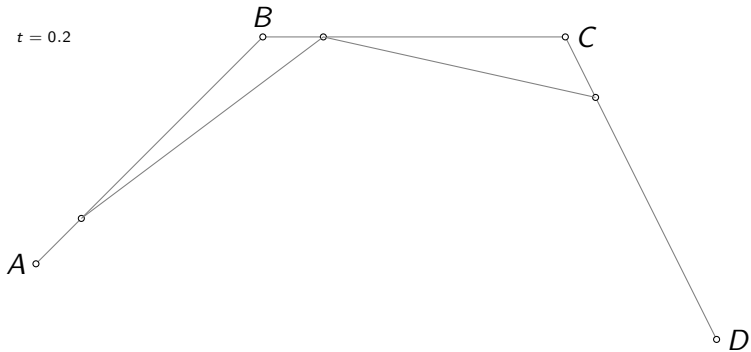
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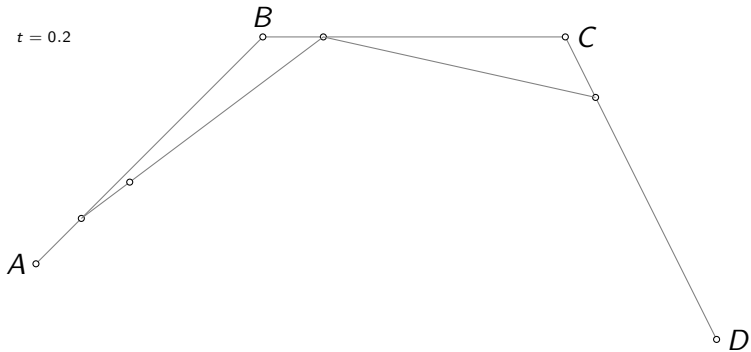
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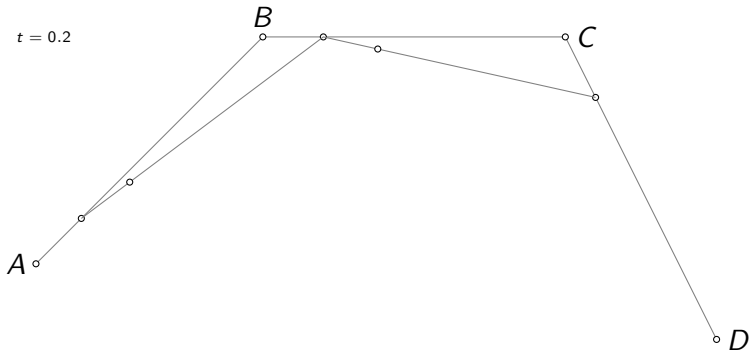
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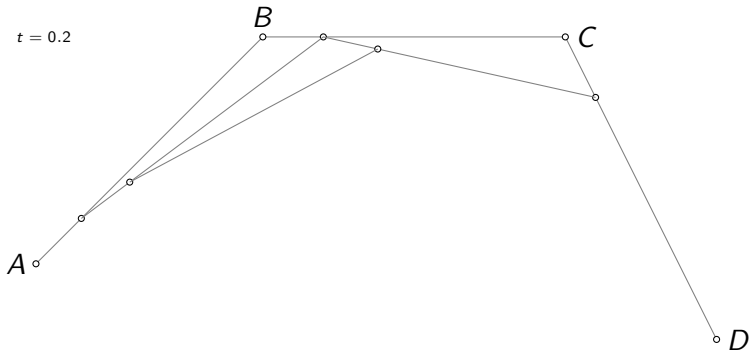
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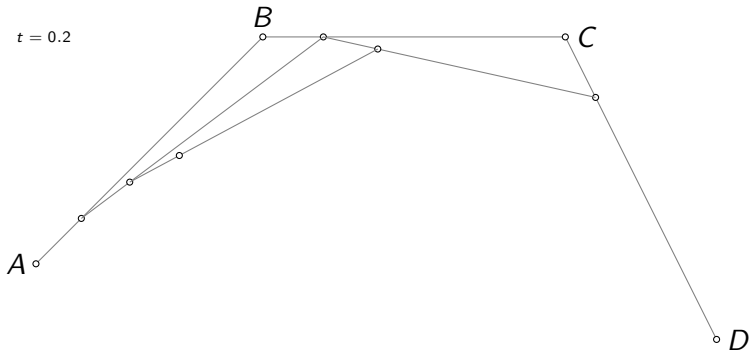
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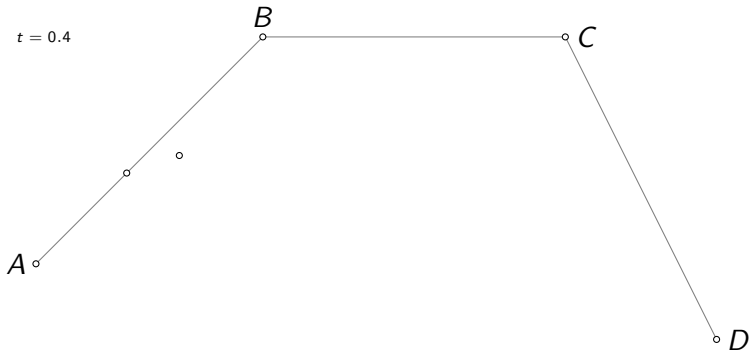
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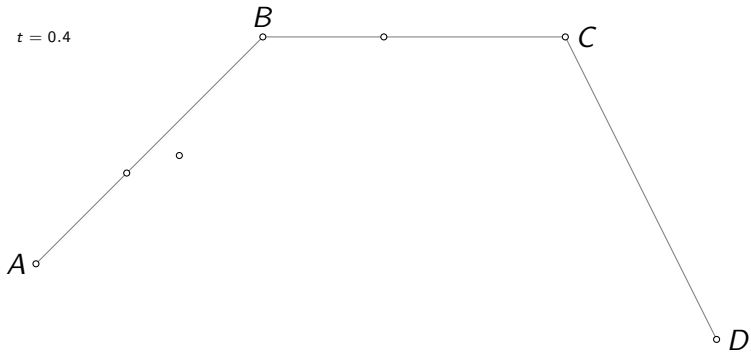
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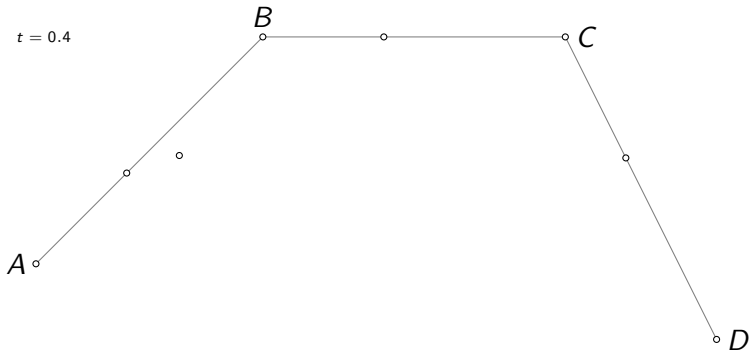
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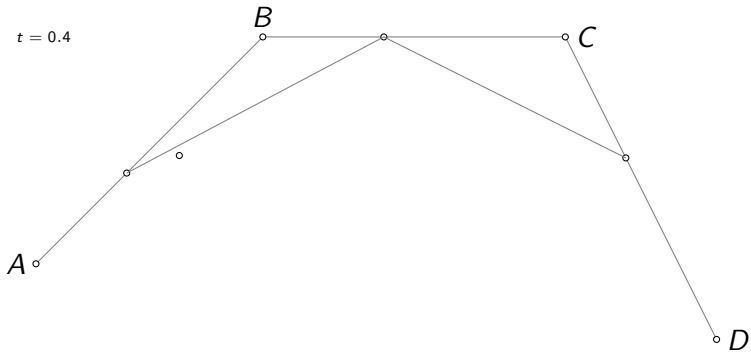
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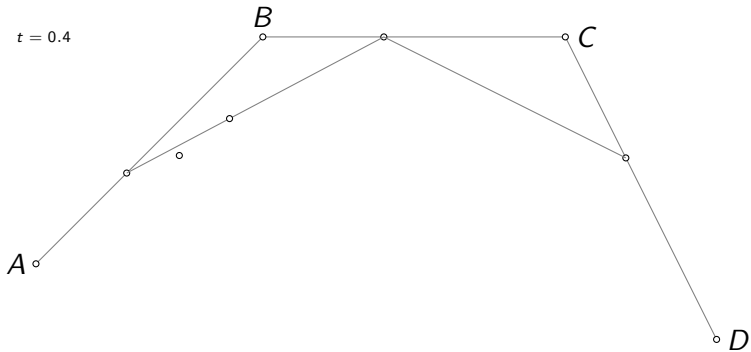
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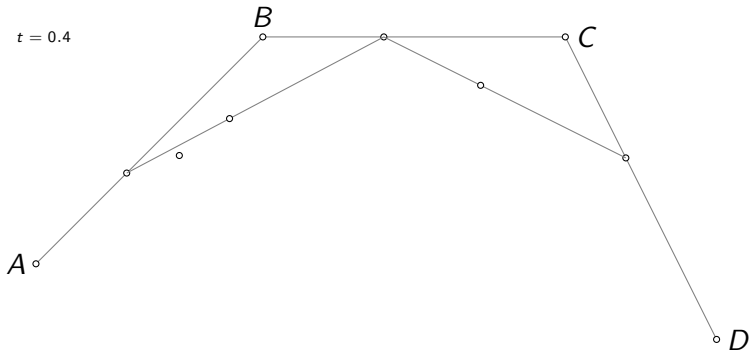
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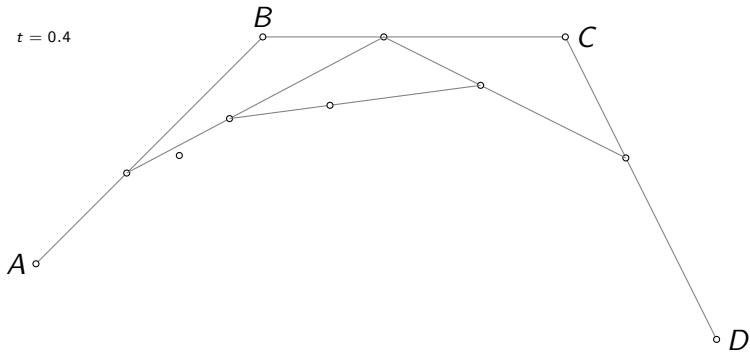
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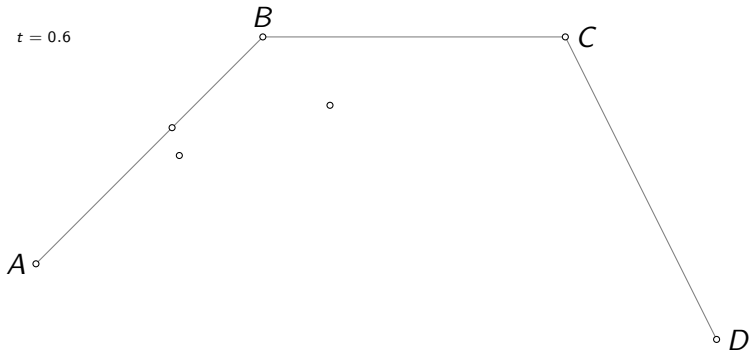
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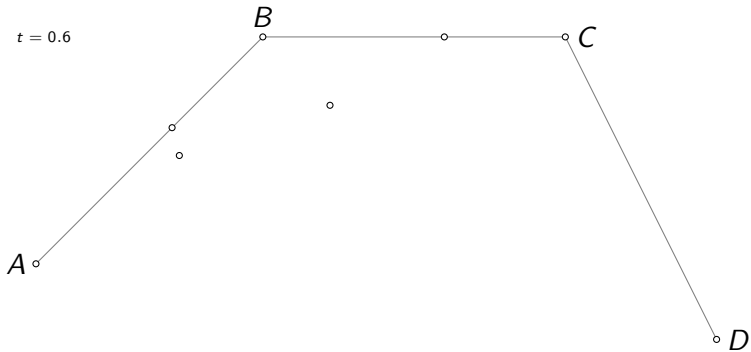
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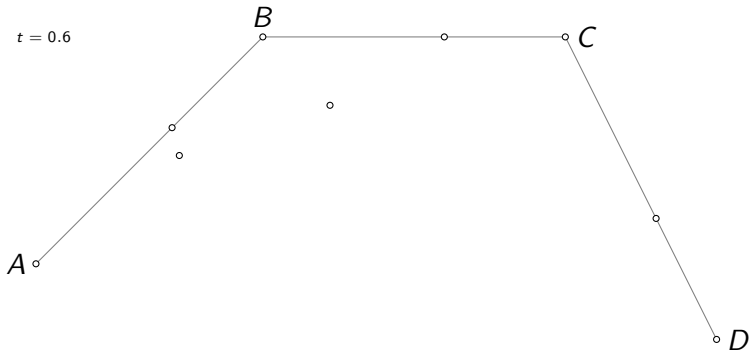
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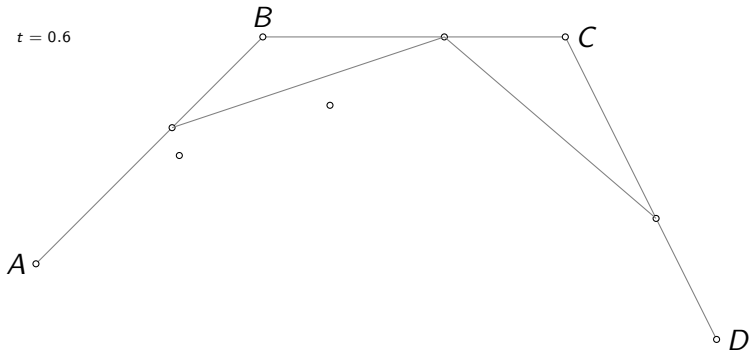
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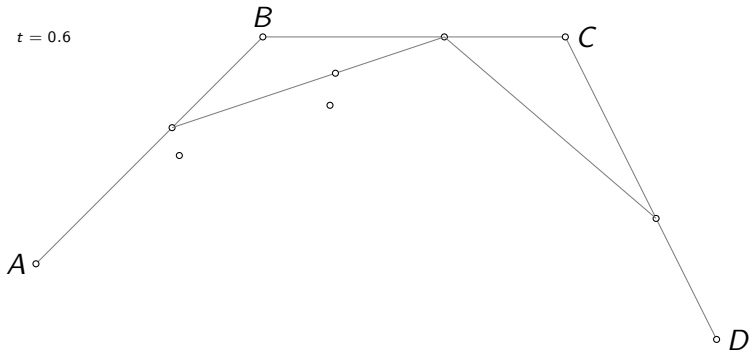


$t = 0.6$

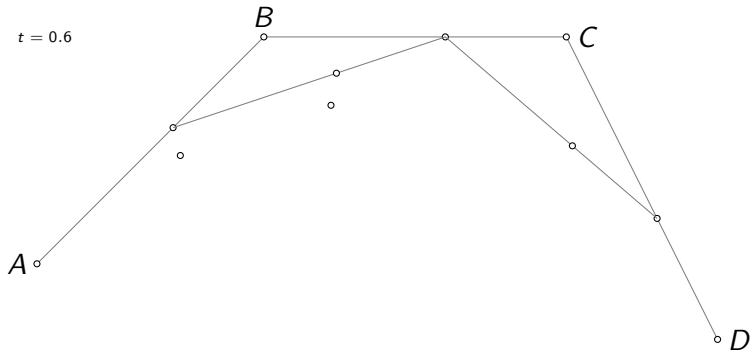


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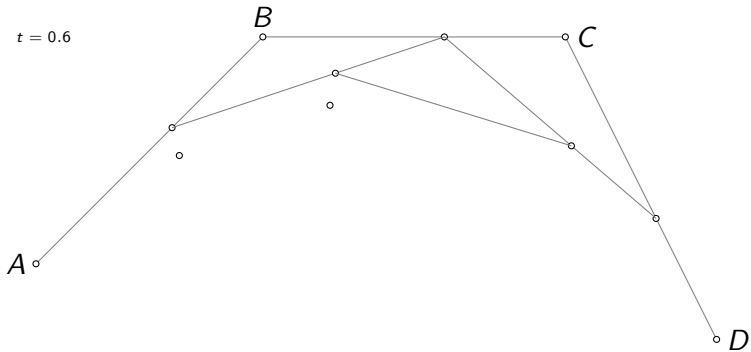


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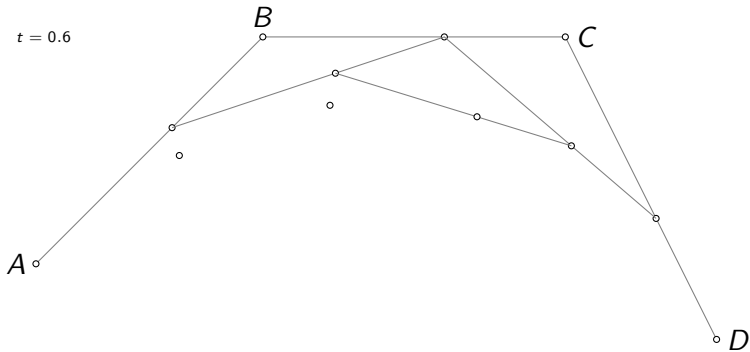
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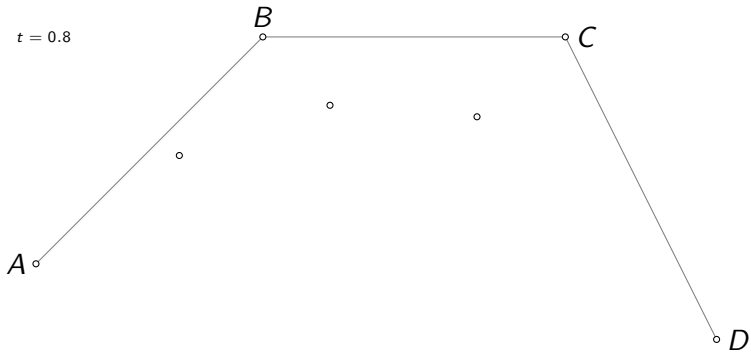
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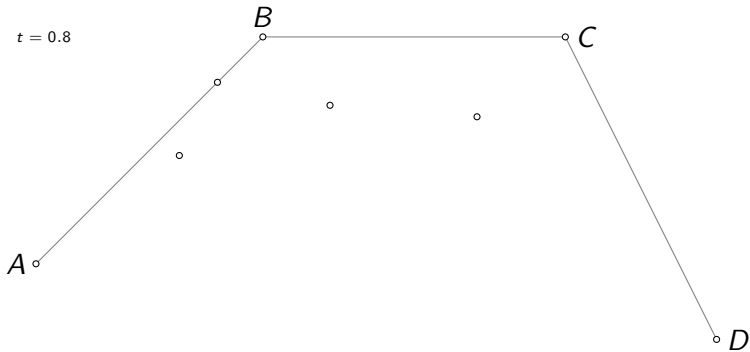
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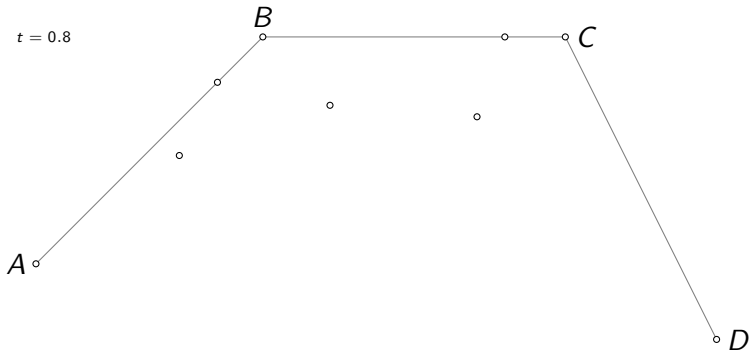
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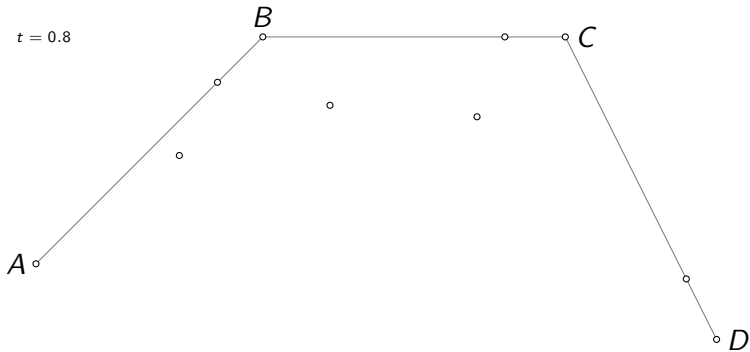
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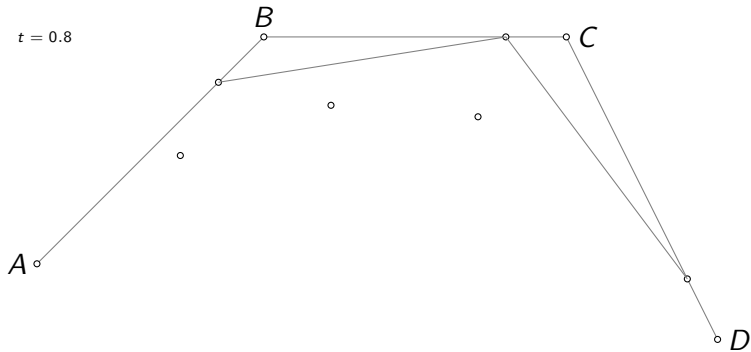
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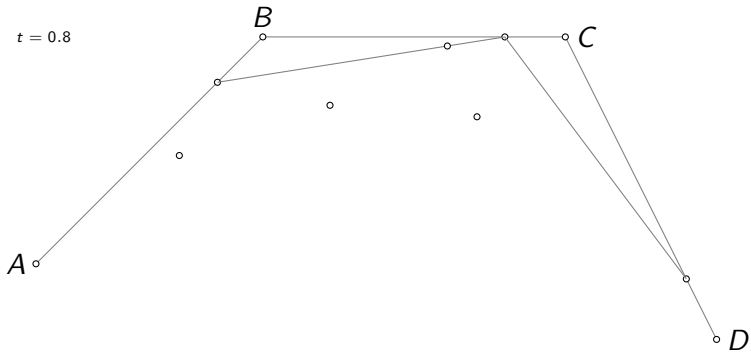
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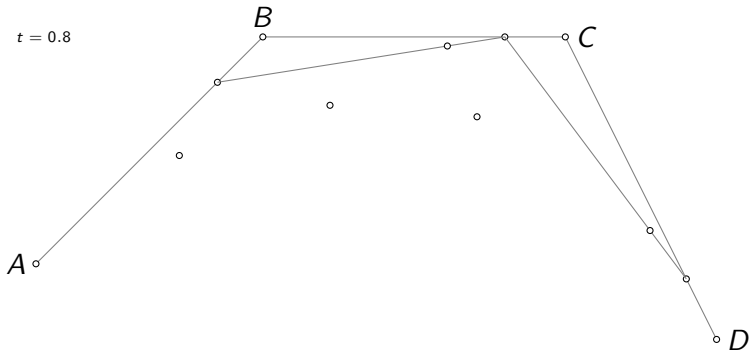
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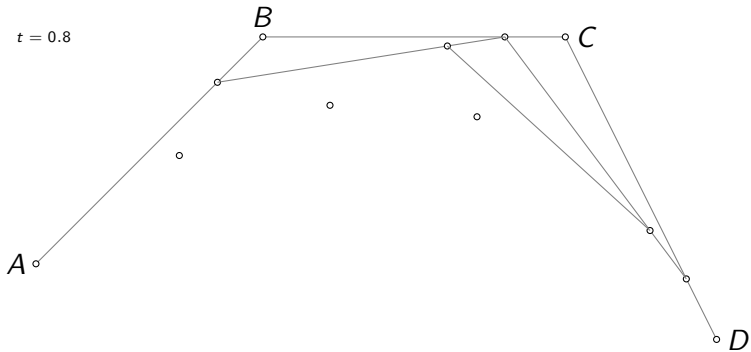
$t = 0.8$



$t = 0.8$



$t = 0.8$



$t = 0.8$

