**Darba lapa “Vektora koordinātas, darbības ar vektoriem koordinātu formā”**

**Ceļvedis lietotājam:**

1. izdales materiāls noderēs gan skolēniem tēmas apguvei, gan skolotājiem kā darba lapa vielas nostiprināšanai;
2. darba veikšanai nepieciešami rakstāmpiederumi un lineāls.

**1.uzdevums**

**Kā noteikt vektora koordinātas?**

Zināms, ka

a ) $ \vec{KL}=\left(4;3\right)$un K$\left(5;0\right).$ Nosaki punkta L koordinātas!

b ) $ \vec{MN}=\left(0;-3\right)$un N$\left(3;6\right).$ Nosaki punkta M koordinātas!

Uzzīmē šos vektorus!

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**2.uzdevums**

**Kā, zinot vektora koordinātas, noteikt tā garumu?**

Pierādīt, ka četrstūris OPRS ir paralelograms, ja O(-4; 2), P(0; 4), R(6; -2), S(2; -4).

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**3.uzdevums**

**Kā atrast divu vektoru summas koordinātas?**

Doti vektori $\vec{OA}$=(-1;5) un $\vec{OB} $=(6;4). Nosaki vektora $\vec{OC} $= $\vec{OA} $+ $\vec{OB}$ koordinātas!

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**4.uzdevums**

**Kā atrast divu vektoru starpības koordinātas?**

Doti vektori $\vec{OA}$=(-1;5) un $\vec{OB} $=(6;4). Nosaki vektora $\vec{BA} $= $\vec{OA} -$ $\vec{OB}$ koordinātas!

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**5.uzdevums**

Zināms, ka $ \vec{a}=\left(2;-2\right)$un $\vec{a}+\vec{b}=\left(5;-2\right). $Nosaki vektora $\vec{b}$ koordinātas!

**6.uzdevums**

**Kā atrast koordinātas vektoram, kas reizināts ar skaitli?**

Dots vektors $\vec{a}$=(-1;5). Nosaki vektora 3$\vec{a}$ koordinātas!

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**7.uzdevums**

Suns pārvietojās pa trajektoriju DOTIES, bet suņa saimnieks devās taisni no punkta D uz punktu S. Izsaki vektorus $\vec{DO},\vec{OT},\vec{TI},\vec{IE},\vec{ES}$ un$ \vec{DS} $koordinātu formā! Aprēķini koordinātu formā $\vec{DO}+\vec{OT}+\vec{TI}+\vec{IE}+\vec{ES}. $Salīdzini iegūto summas vektoru ar vektoru $\vec{DS} .$Nosaki saimnieka veiktā ceļa garumu!

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