

Mathematics Class Slides

Bronx Early College Academy

Chris Huson

22 October - 2 November 2018

3b.1 Druil - Vector arithmetic, Friday Nov 16

3b.2 Druil - Vector arithmetic, Monday Nov 19

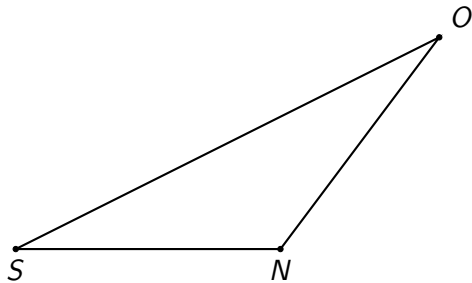
3b.4 Druil - Vector arithmetic, Wednesday Nov 21

GQ: How do we find the angle between vectors?

CCSS: HSG.SRT.D11 Apply the law of cosines

3b.1 Friday Nov 16

Do Now: Given $\triangle SNO$ with $S(2, 1)$, $N(7, 1)$, $O(10, 5)$.



1. Write down the law of cosines
2. Find the lengths SN and SO
3. Given $m\angle S = 26.6^\circ$, find NO

Lesson: Law of cosines, the scalar product

Homework exercise 12I pp. 428-9

GQ: How do we find the angle between vectors?

CCSS: HSG.SRT.D11 Apply the law of cosines

3b.2 Monday Nov 19

Do Now: Exam Style Question #5 p 439.

Lesson: Practice with the law of cosines, the scalar product

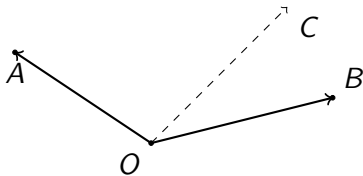
Homework: Calculus review problem set handout

GQ: How do we find the angle between vectors?

CCSS: HSG.SRT.D11 Apply the law of cosines

3b.4 Wednesday Nov 21

Do Now: Given position vectors \vec{OA} , \vec{OB} , \vec{OC} with $A(-3, 2)$, $B(4, 1)$, $C(3, k)$.



1. Find $m\angle AOB$
2. Find k such that $\vec{OA} \perp \vec{OC}$

Review Exercise 12I pp. 428-9

Lesson: Vector equations of lines p. 430-1

Homework: Calculus review problem set handout