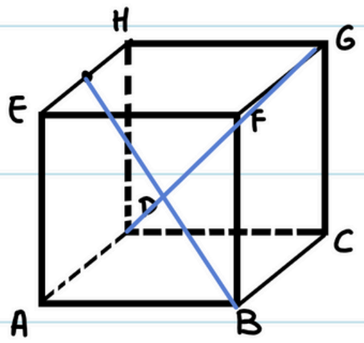
DIMENSI TIGA

Adriel / XII MIPA 9 / 02
Arielle / XII MIPA 9 / 04
Steven / XII MIPA 9 / 32
Vanessa / XII MIPA 9 / 35

KETEGAKLURUSAN DUA GARIS

Buktikan BR4 DG

a) BRy ⊥ DG



BRy di bidang EBCH

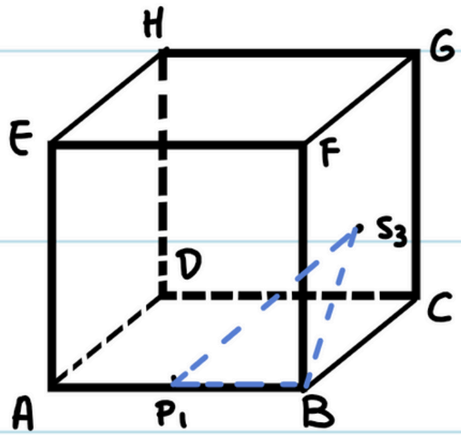
DG dibidang HDCG

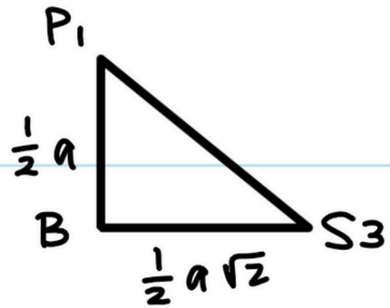
BC ⊥ DC	DG ⊥ CH
BC ⊥ CG	DG ⊥ EBCH
BC ⊥ HDCG	DG ⊥ BRy
BC ⊥ DG	

Jarak Titik ke Titik

Tentukan Jarak P1 ke S3

b) P_1 ke S_3





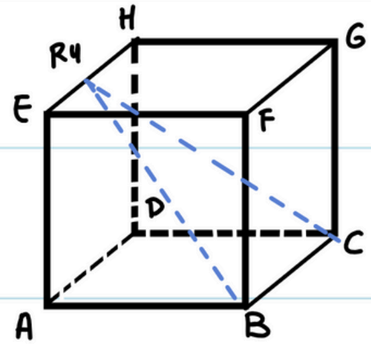
$$P_1S_3 = \sqrt{\frac{1}{4}a^2 + \frac{2}{4}a^2}$$

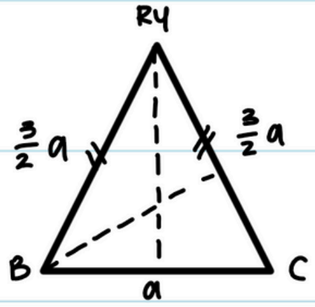
$$= \frac{1}{2}a\sqrt{3}$$

Jarak titik ke garis

Tentukan jarak B ke CR4

c) B ke CR4





$L\triangle = L\triangle$

$\frac{1}{2} a \sqrt{2} = \frac{1}{2} \frac{3}{2} a \cdot t$

$a\sqrt{2} = \frac{3}{2} t$

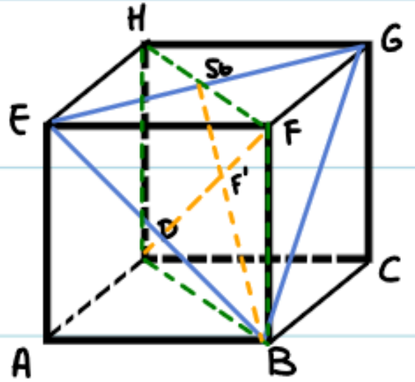
$t = \frac{2}{3} a\sqrt{2}$

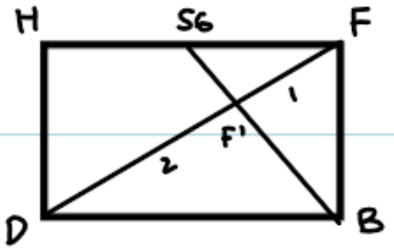
MATHEMATICS CLASS

Jarak Titik ke Bidang

Tentukan jarak F ke BEG

F ke BEG





$FF' = \frac{1}{3} FD$

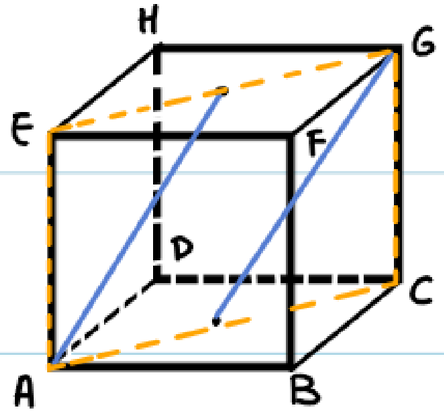
$= \frac{1}{3} a\sqrt{3}$

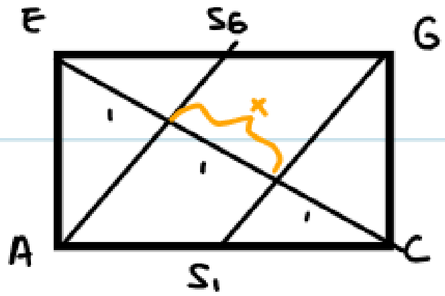
MATHEMATICS CLASS

Jarak 2 garis sejajar

Tentukan jarak AS6 ke GS1

AS6 ke GS1



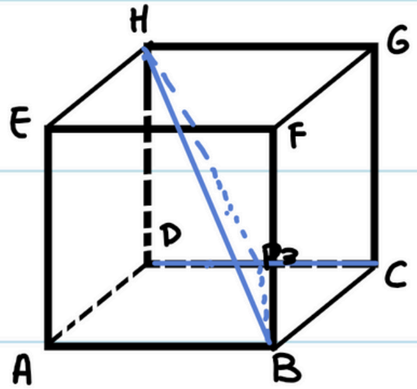


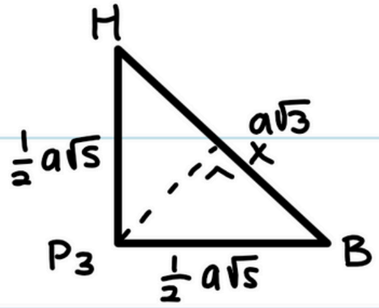
$$X = \frac{1}{3} EC$$

$$= \frac{1}{3} a\sqrt{3}$$

Jarak 2 garis bersilangan

e) CD ke BH





$$P_3X = \sqrt{\frac{5}{4}a^2 - \frac{3}{4}a^2}$$

$$= \sqrt{\frac{2}{4}a^2}$$

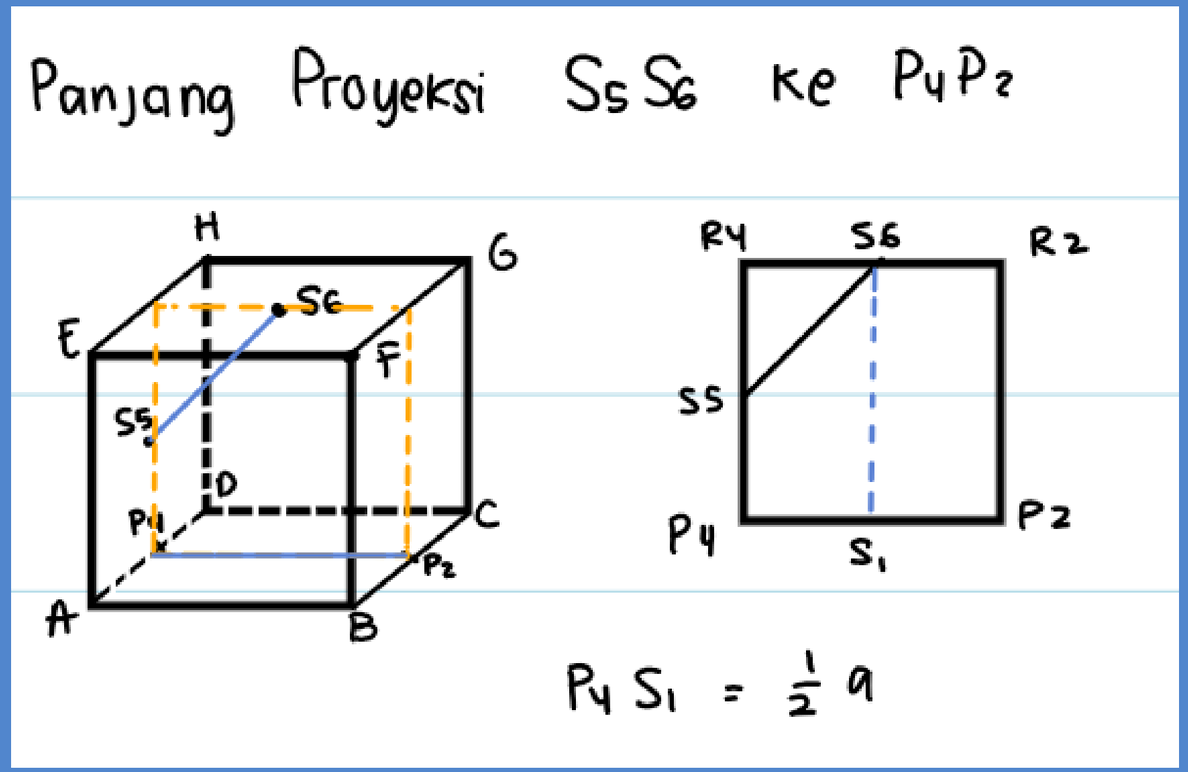
$$= \frac{1}{2}a\sqrt{2}$$

Tentukan jarak CD ke BH

MATHEMATICS CLASS

Proyeksi garis ke garis

Tentukan panjang proyeksi S5S6 ke P4P2

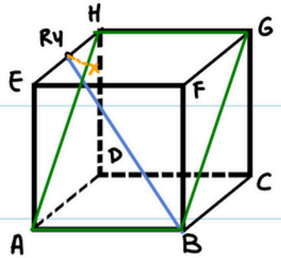


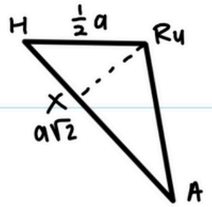
MATHEMATICS CLASS

Proyeksi garis ke bidang

Tentukan panjang proyeksi BR4 ke ABGH

h) Panjang Proyeksi BR4 pd bidang ABGH

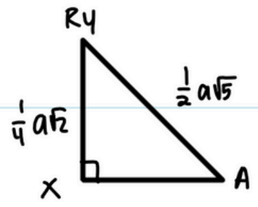




$L\triangle = L\triangle$

$\frac{1}{2}$ ~~1~~/~~d~~ a = ~~y~~/~~z~~ d√2 R4X

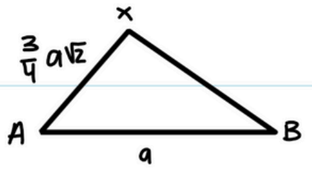
$R4X = \frac{1}{4} a\sqrt{2}$



$AX = \sqrt{\frac{20}{16}a^2 - \frac{2}{16}a^2}$

$= \sqrt{\frac{9}{8}a^2}$

$= \frac{3}{4} a\sqrt{2}$



$Bx = \sqrt{\frac{18}{16}a^2 + a^2}$

$= \sqrt{\frac{34}{16}a^2}$

$= \frac{1}{4} a\sqrt{34}$

THANK YOU!!