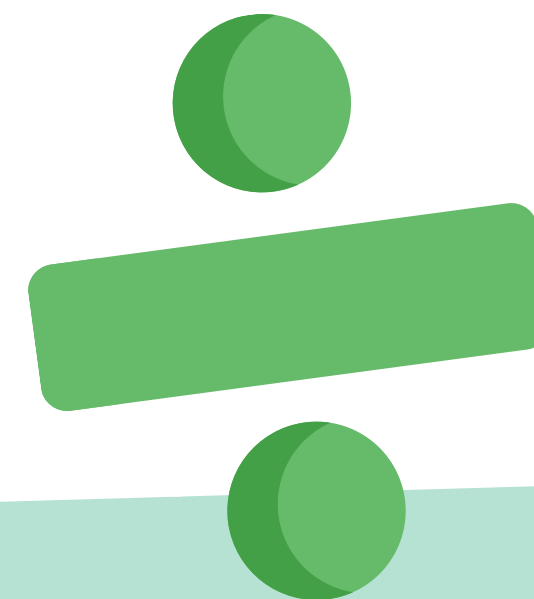
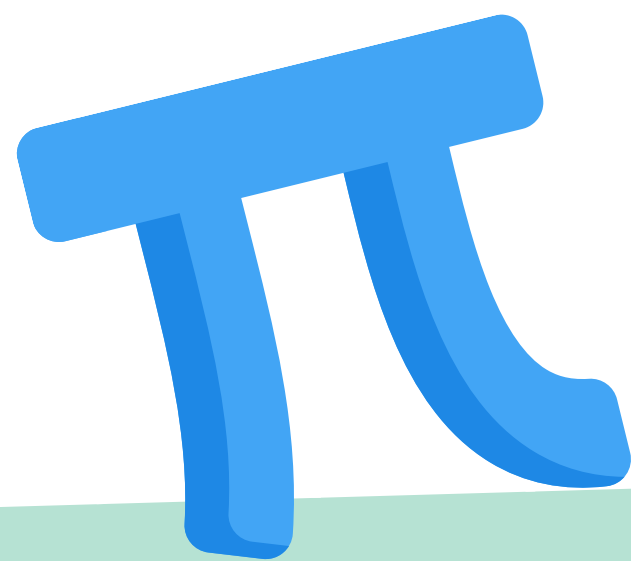


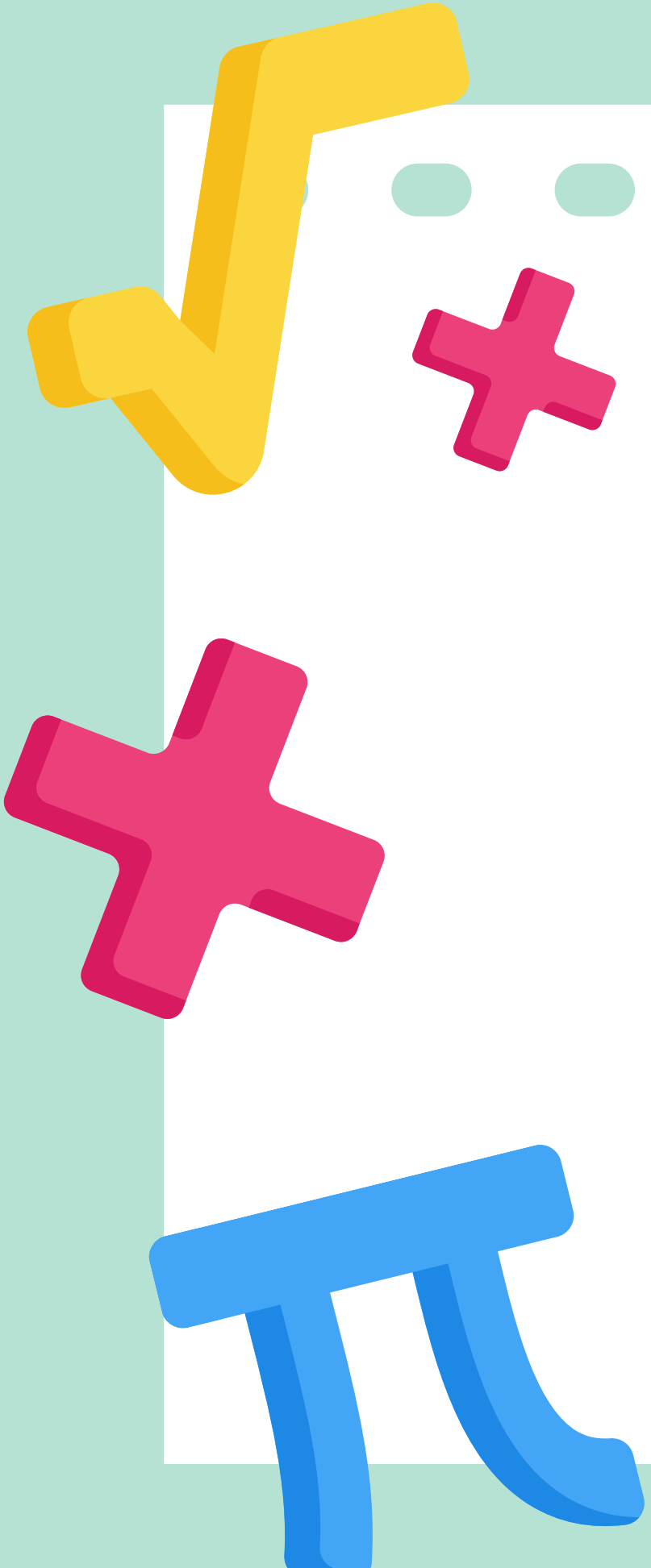


Dimensi Tiga

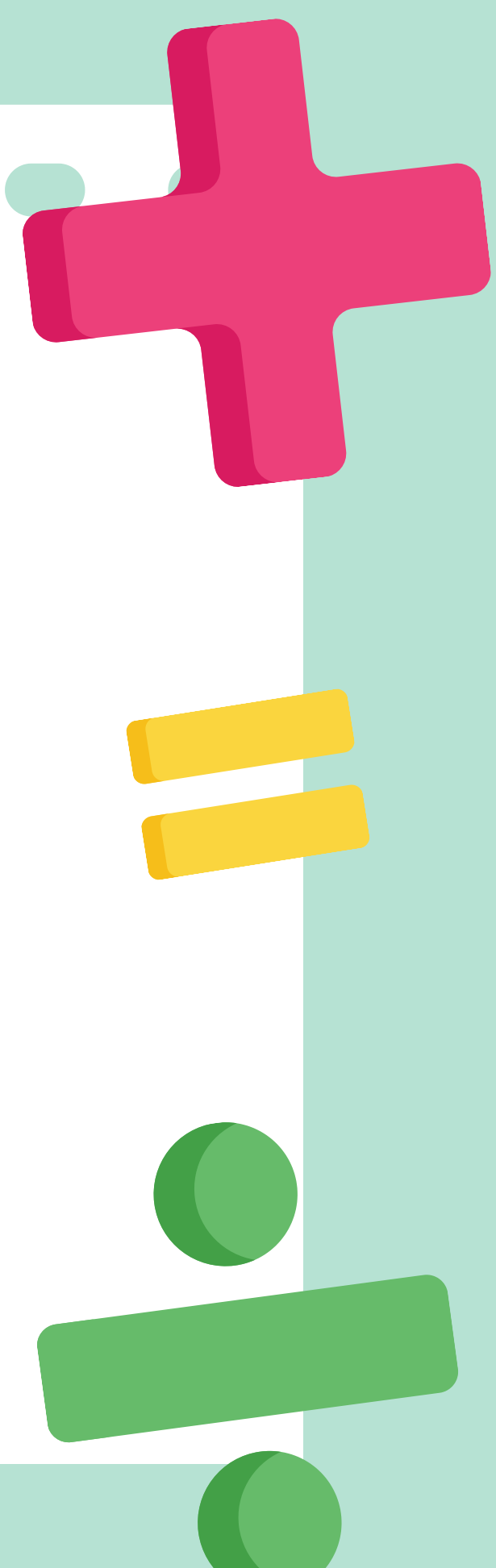


XII IPS 2

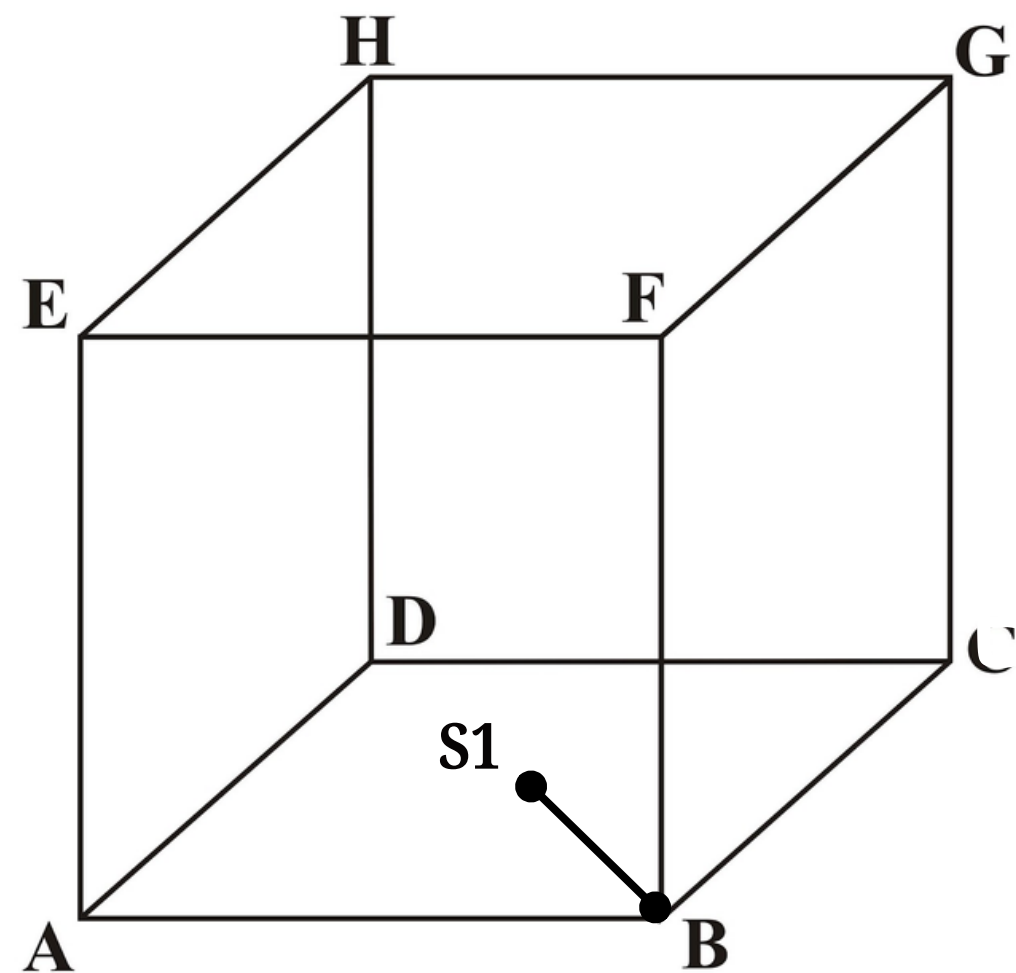




ANGGOTA KELOMPOK

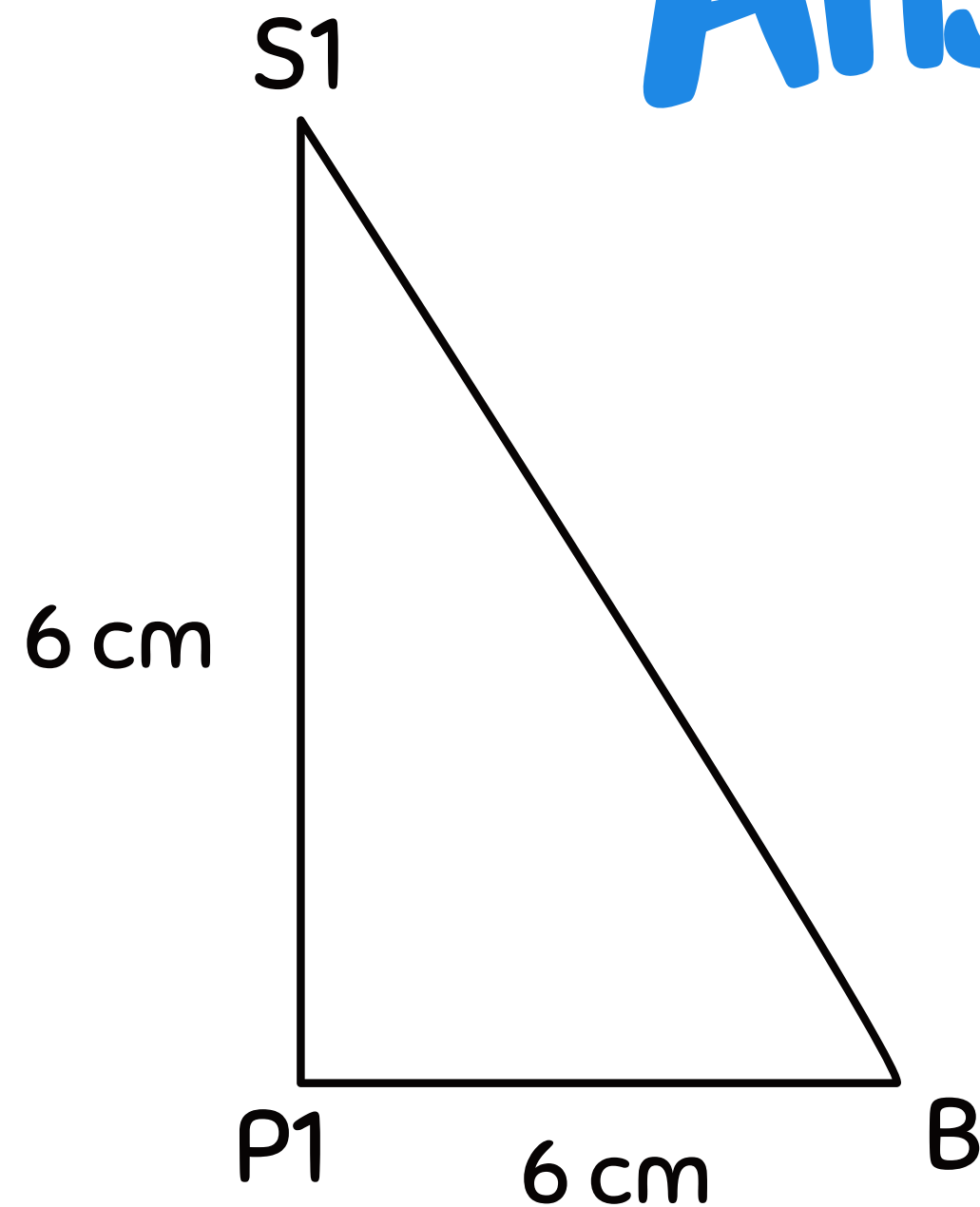
- CLEMENTIUS ENRICO XII IPS 2/07
 - MARVEL MULYONO XII IPS 2/28
 - NICHOLAS SAPTAJAYA XII IPS 2/30
 - RENATA FELIA XII IPS 2/32
- 

Question 01



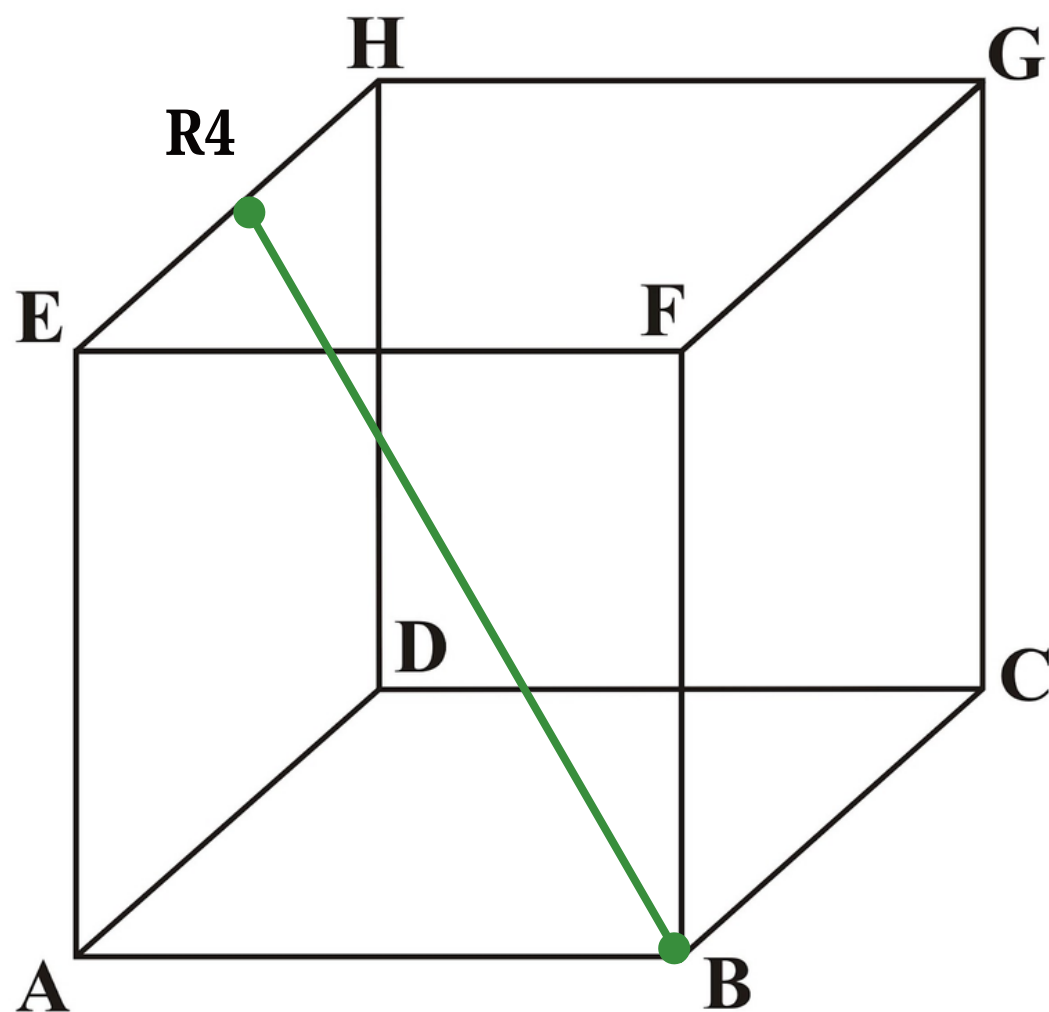
Tentukan jarak titik B ke
S1 jika Panjang sisi kubus
ABCD EFGH adalah 12 cm!

Answer 01



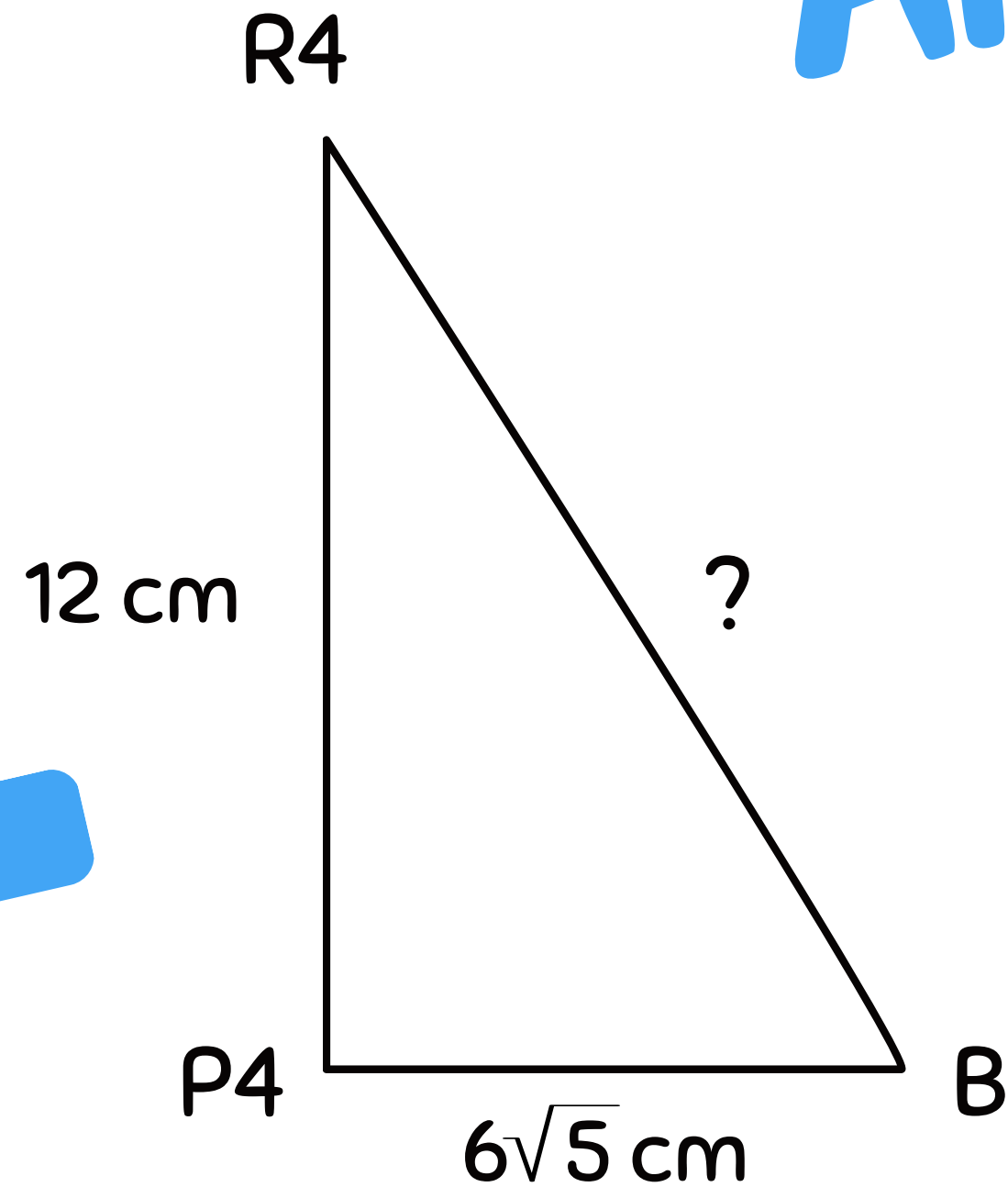
$$\begin{aligned} B S1 &= \sqrt{6^2 + 6^2} \\ &= \sqrt{36 + 36} \\ &= \sqrt{36 \cdot 2} \\ &= 6\sqrt{2} \text{ cm} \end{aligned}$$

Question 02



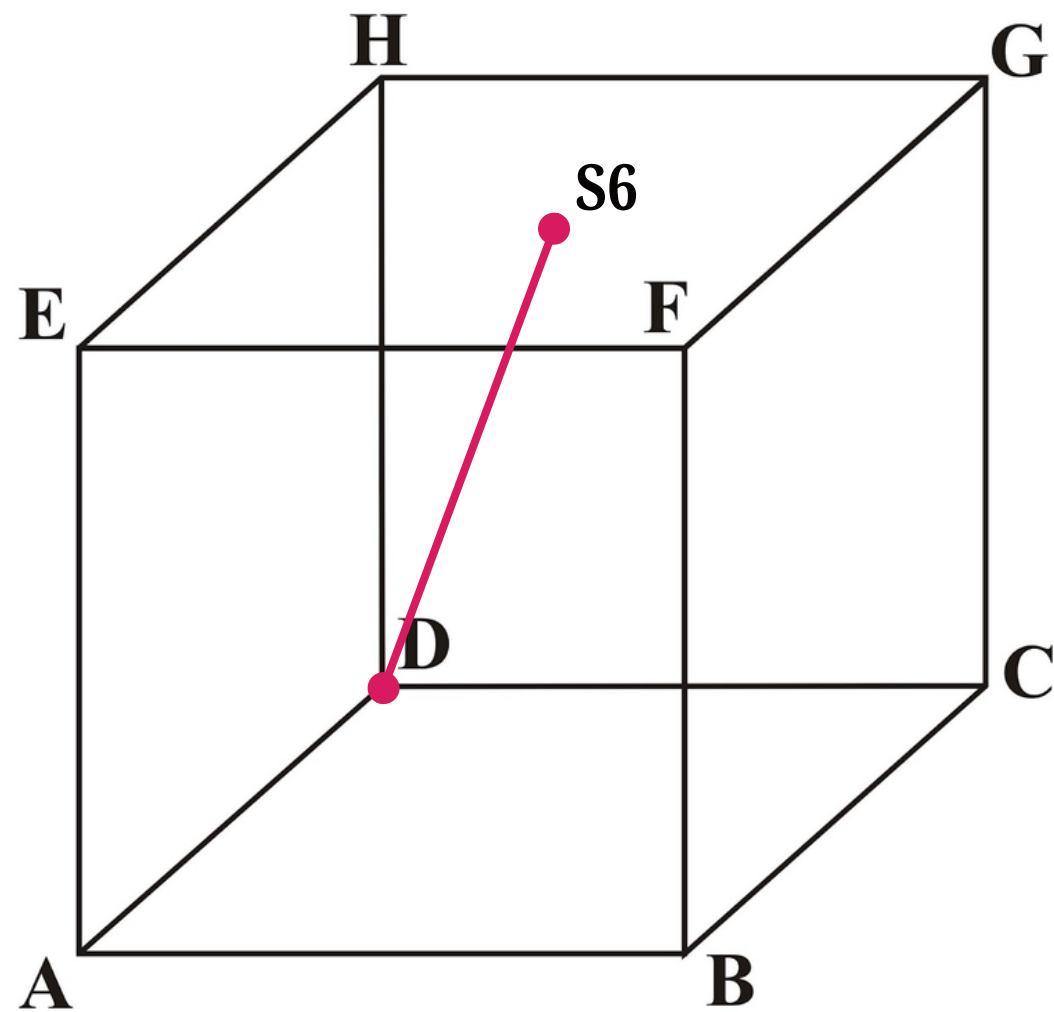
Tentukan jarak titik B ke garis EH jika Panjang sisi kubus ABCD EFGH adalah 12 cm!

Answer 02



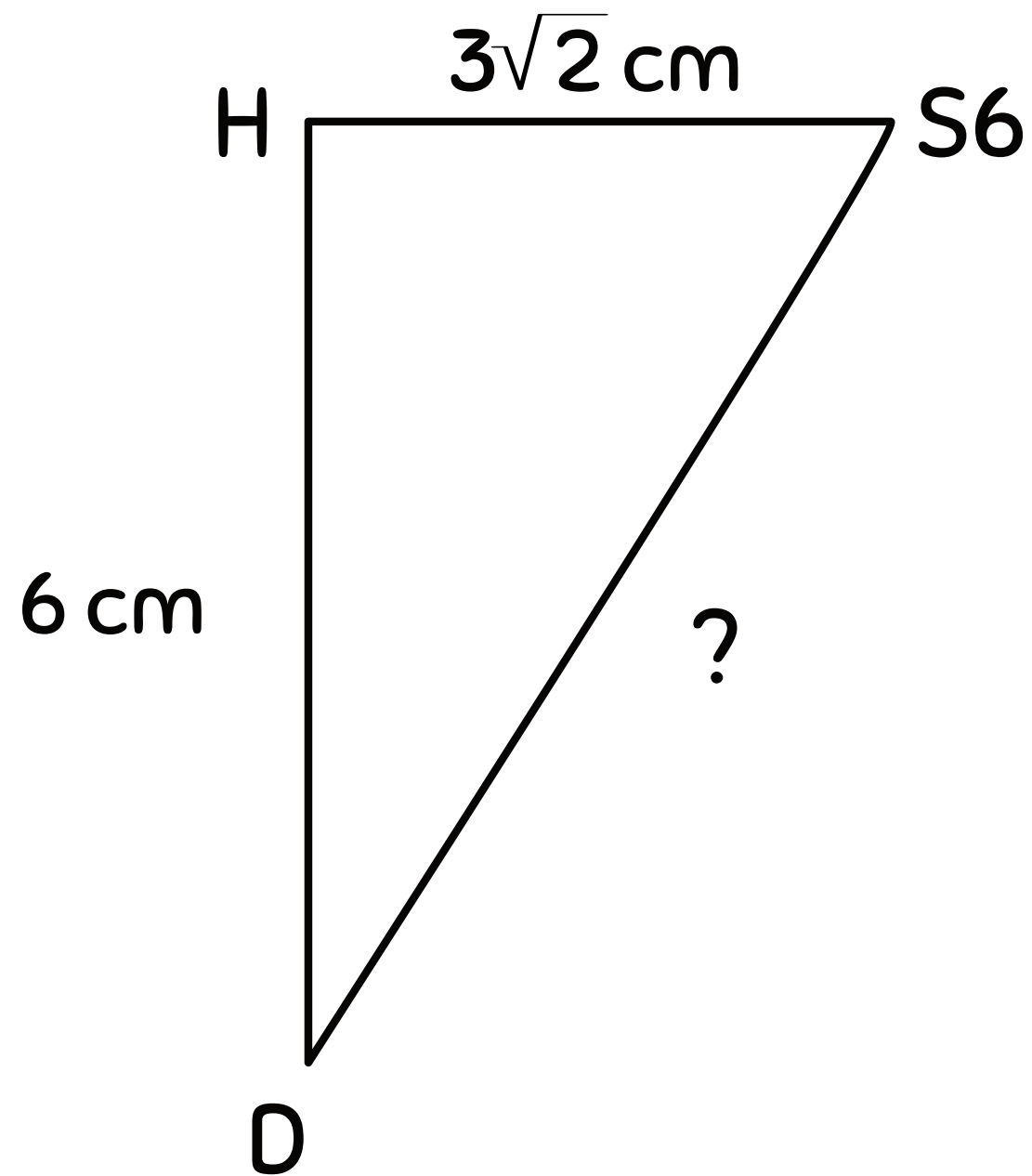
$$\begin{aligned} B R 4 &= \sqrt{12^2 + (6\sqrt{5})^2} \\ &= \sqrt{144 + 180} \\ &= \sqrt{324} \\ &= 18 \text{ cm} \end{aligned}$$

Question 03



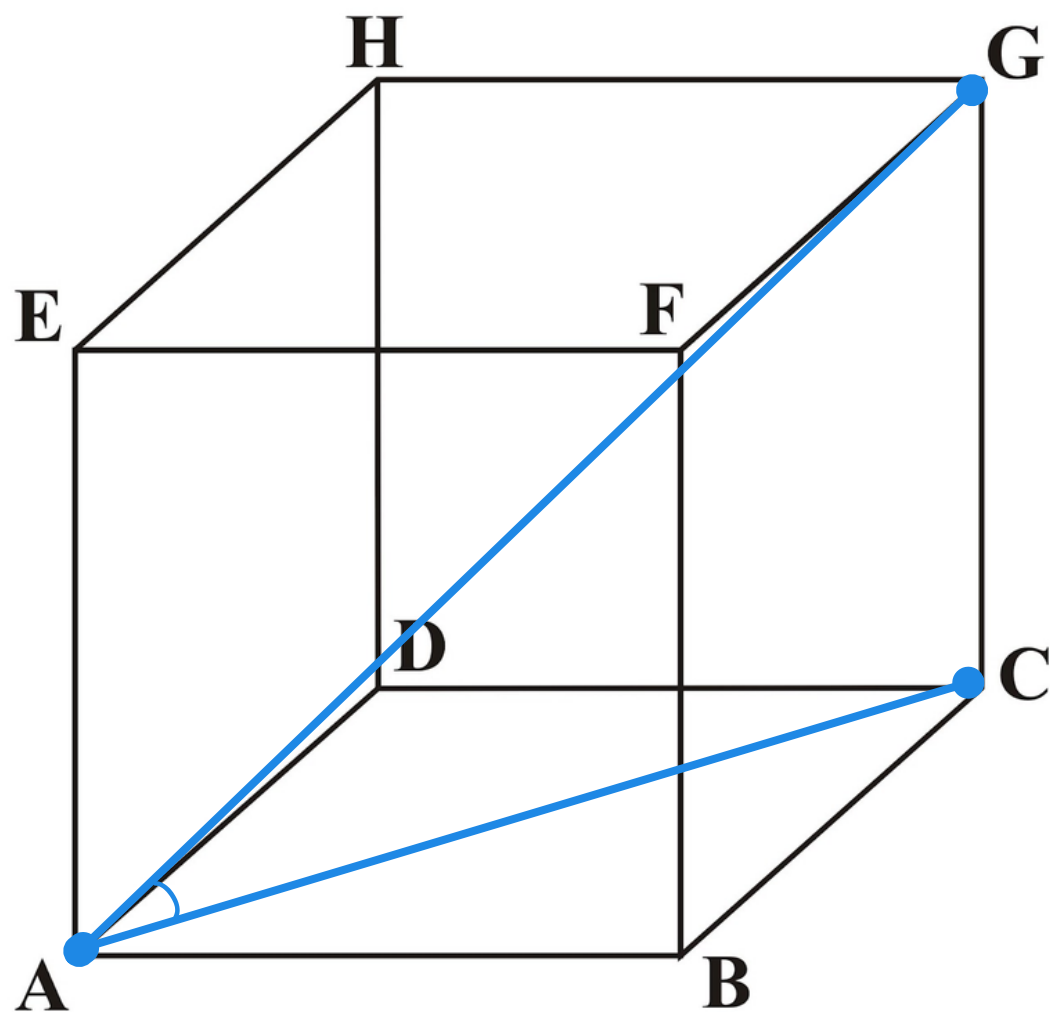
Tentukan jarak titik D
ke bidang EFGH jika
Panjang sisi kubus ABCD
EFGH adalah 6 cm!

Answer 03



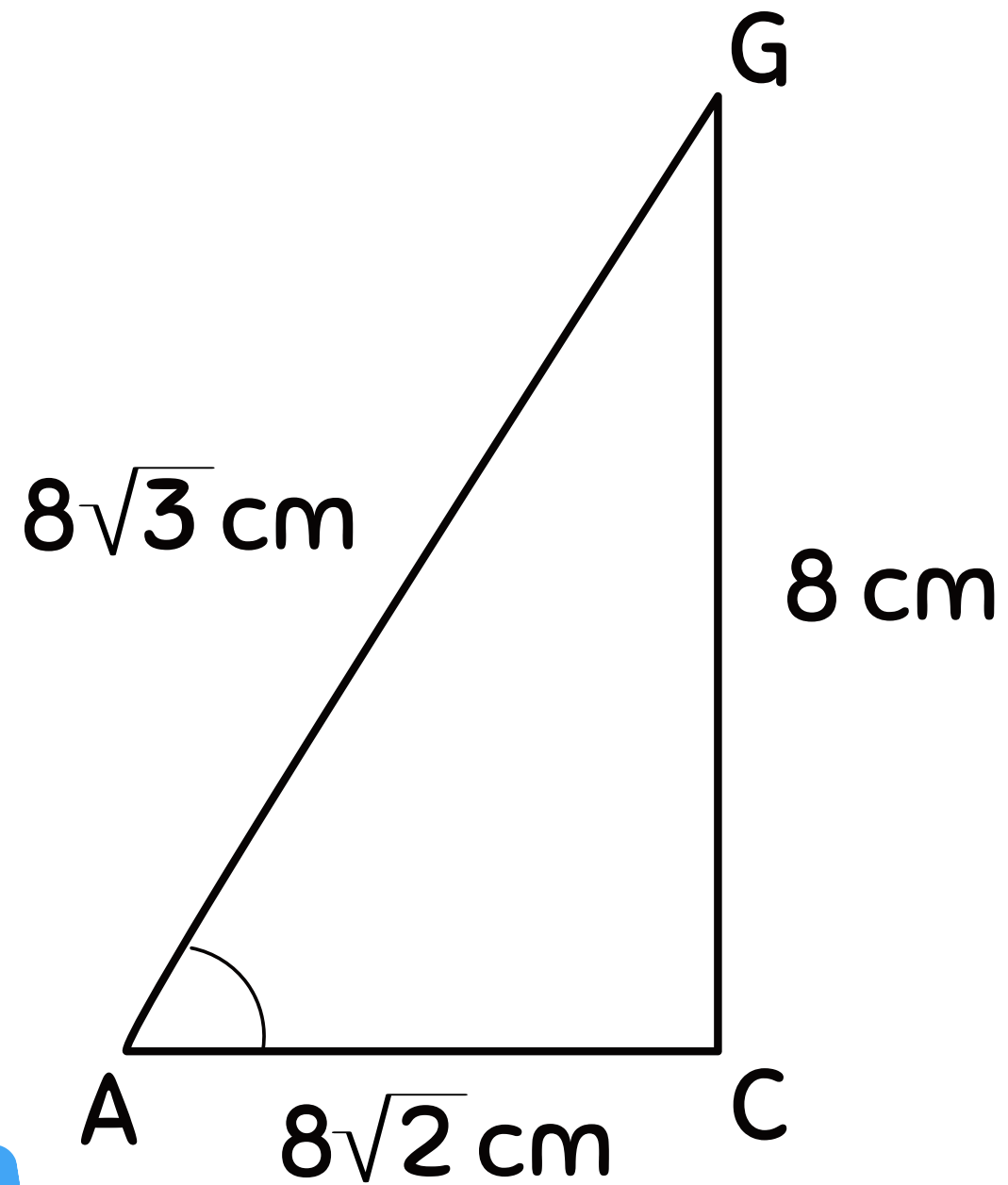
$$\begin{aligned} DS6 &= \sqrt{6^2 + (3\sqrt{2})^2} \\ &= \sqrt{36 + 18} \\ &= 3\sqrt{6} \text{ cm} \end{aligned}$$

Question 04



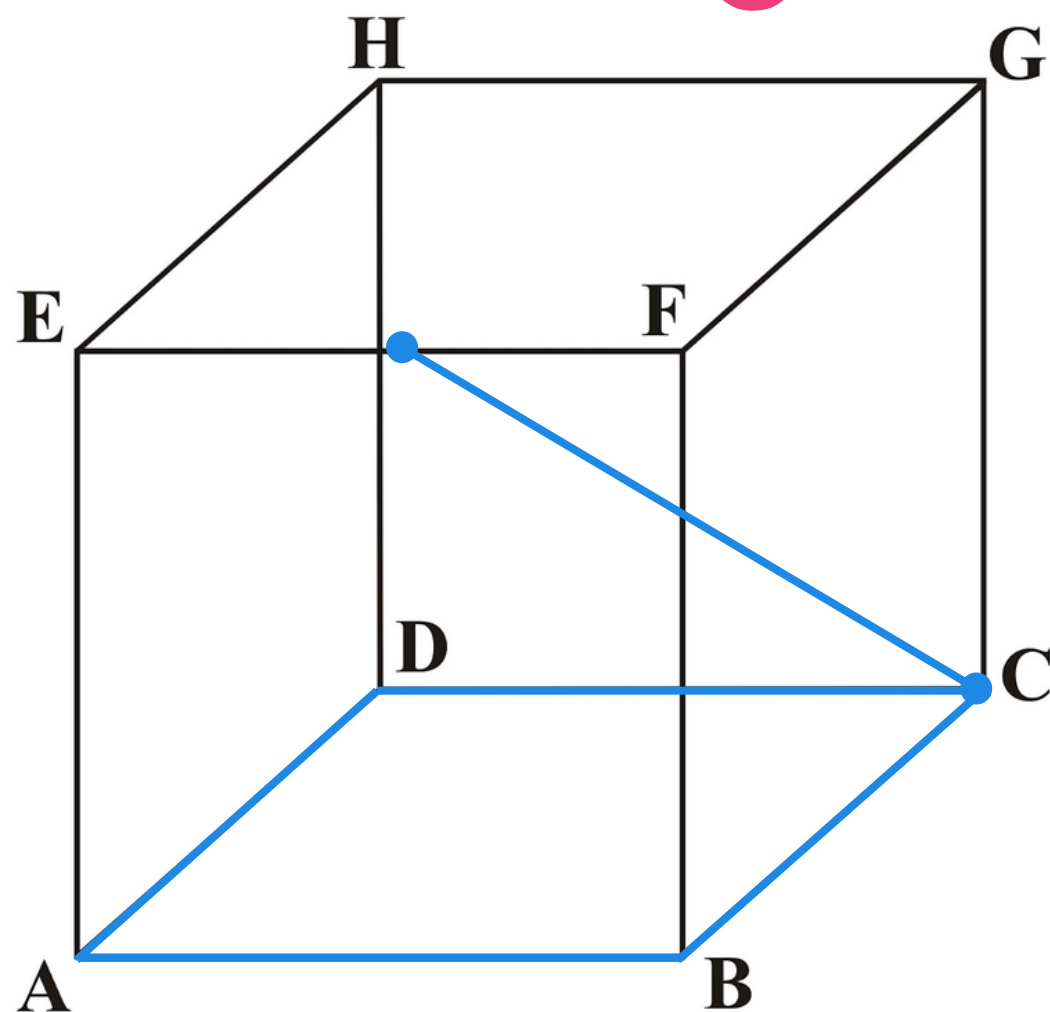
Pada kubus ABCD EFGH panjang sisi adalah 8 cm. Sinus sudut antara garis AG dengan AC adalah.....

Answer 04



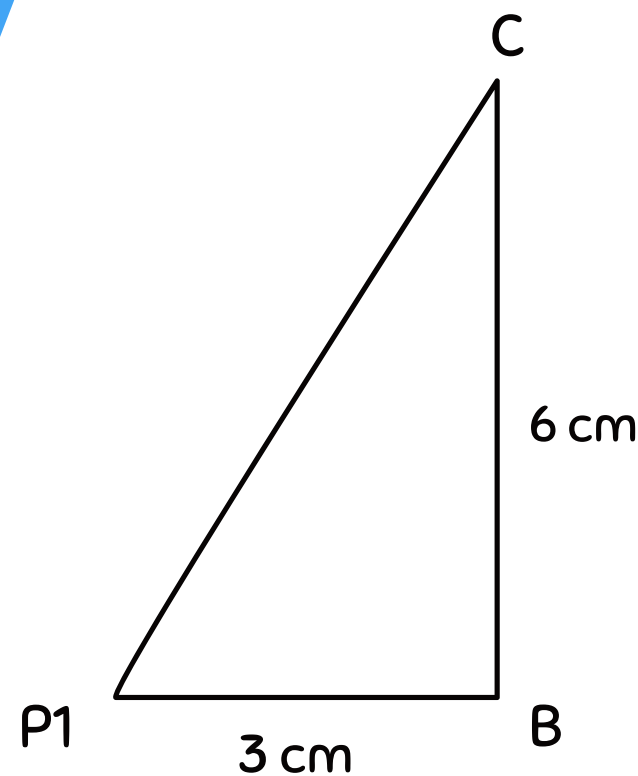
$$\begin{aligned}\sin A &= \frac{8}{8\sqrt{3}} \\ &= \frac{1}{\sqrt{3}} \\ &= \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} \\ &= \frac{\sqrt{3}}{3} \text{ cm}\end{aligned}$$

Question 05

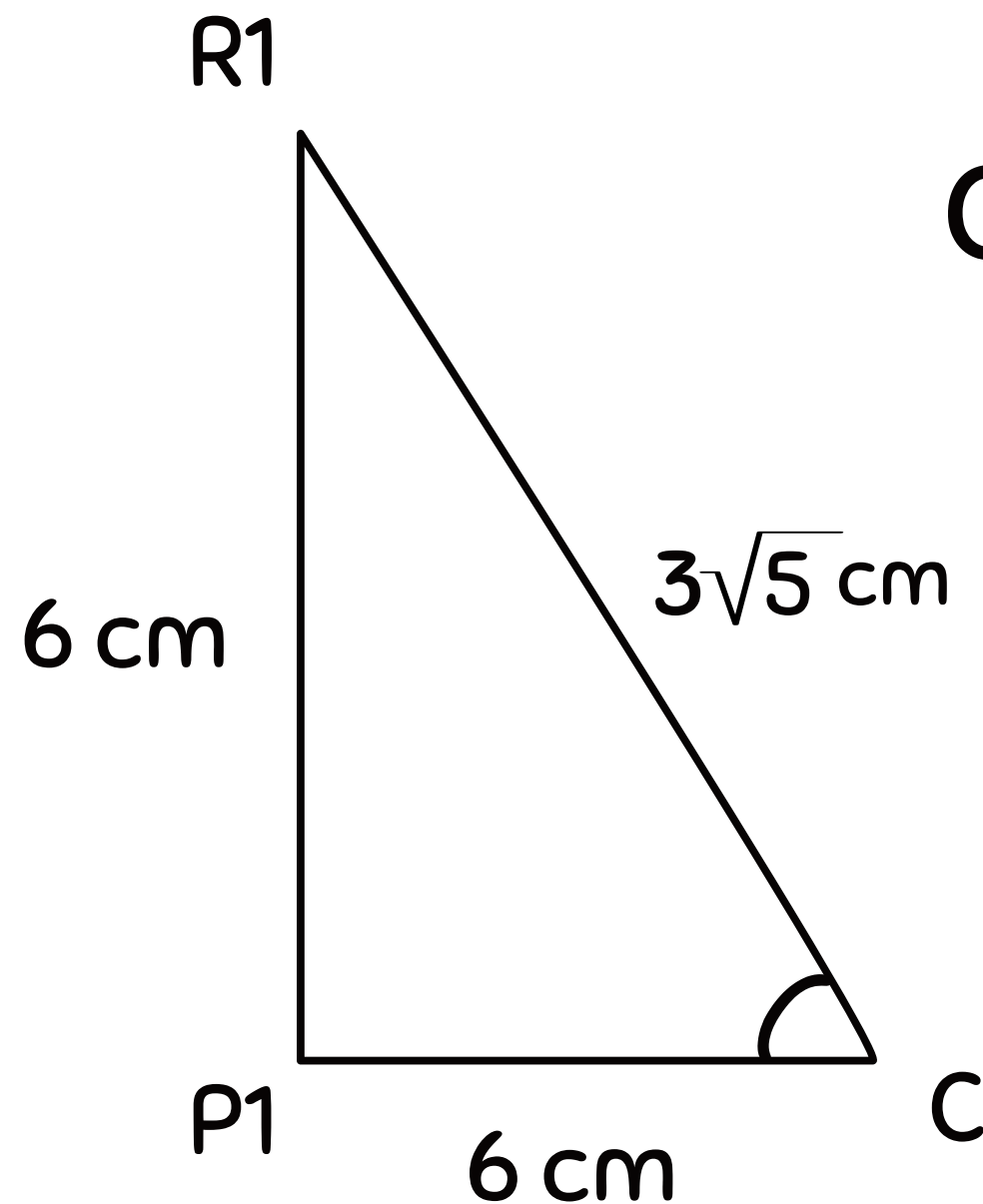


Pada kubus $ABCD EFGH$
panjang sisi adalah 6 cm.
Kosinus sudut antara garis
 CR_1 dengan bidang $ABCD$
adalah.....

Answer 05

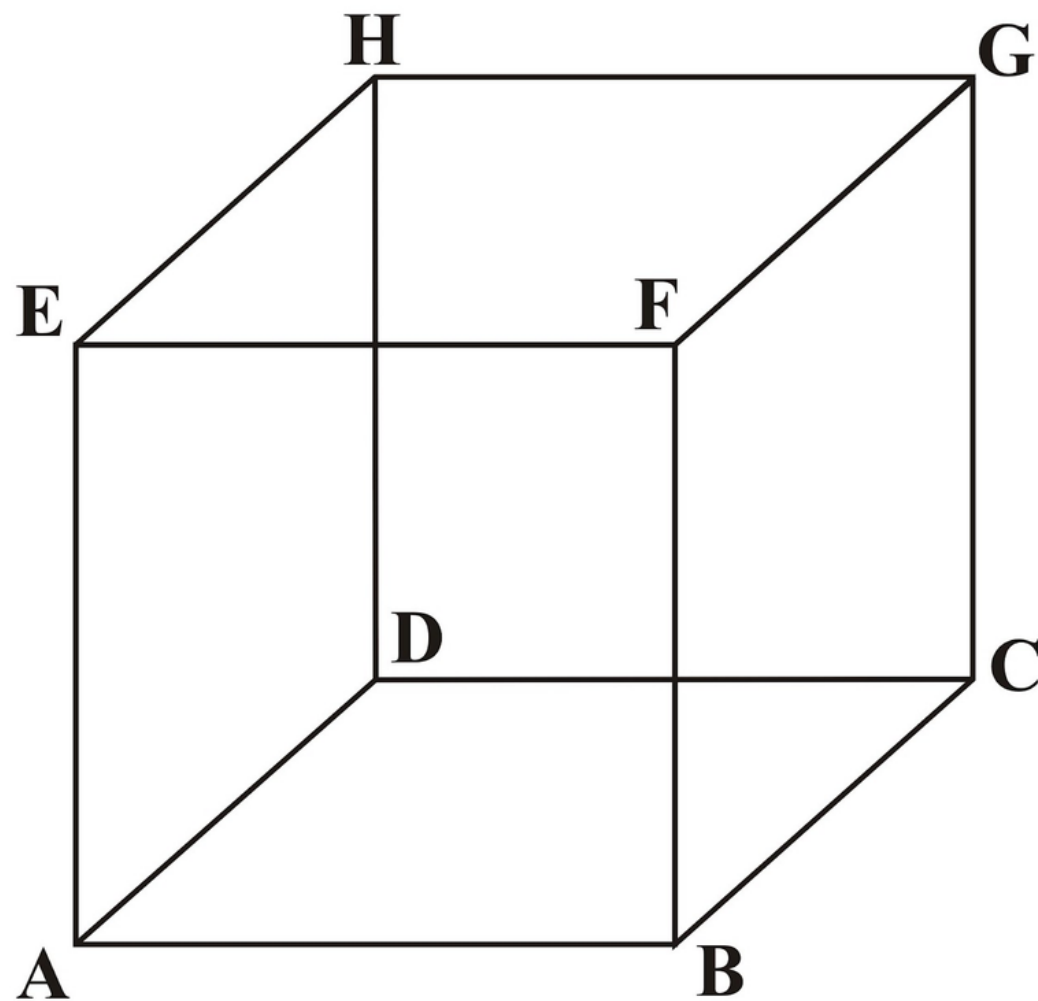


$$\begin{aligned} CP_1 &= \sqrt{3^2 + 6^2} \\ &= \sqrt{9 + 36} \\ &= \sqrt{45} \\ &= 3\sqrt{5} \text{ cm} \end{aligned}$$



$$\begin{aligned} \cos C &= \frac{6}{3\sqrt{5}} \\ &= \frac{2}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} \\ &= \frac{2\sqrt{5}}{5} \text{ cm} \end{aligned}$$

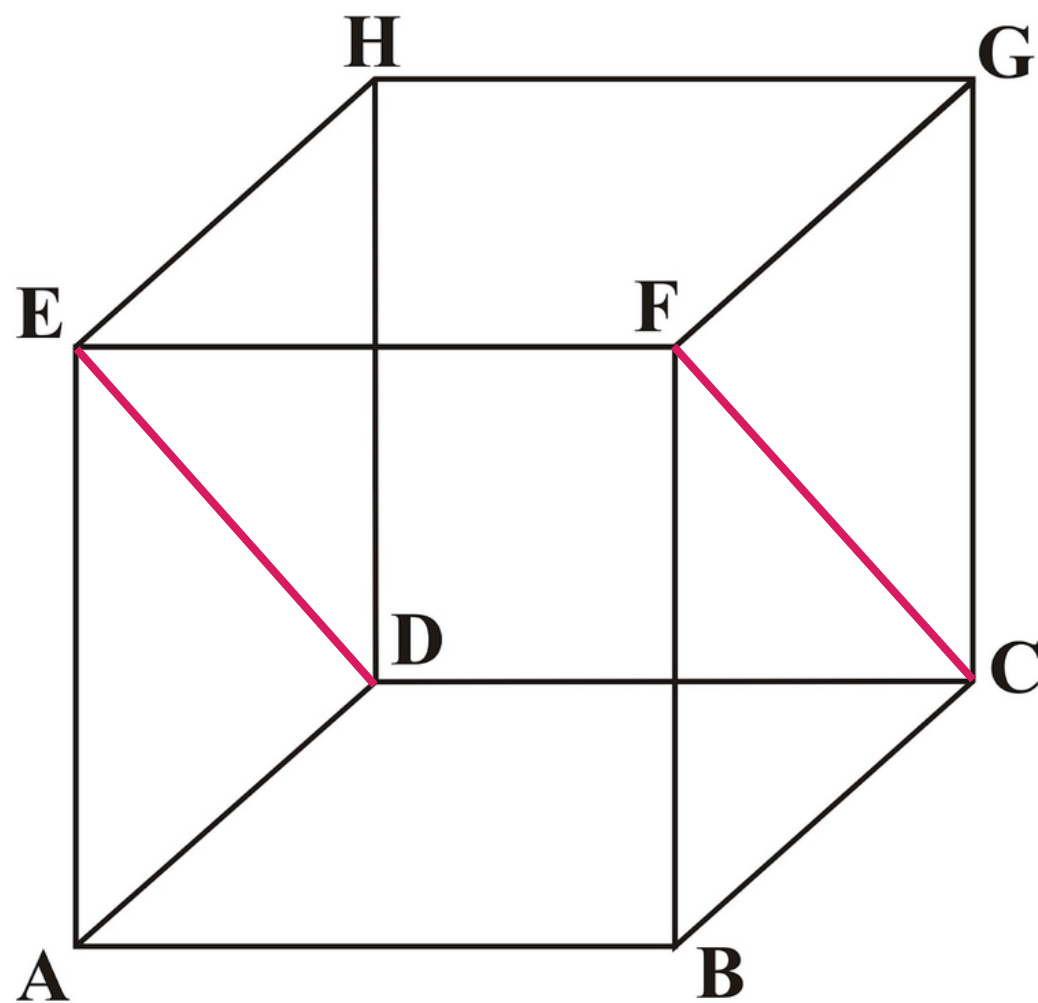
Question 06



Pada kubus ABCD EFGH,
hubungan garis-garis pada
pernyataan di bawah ini adalah

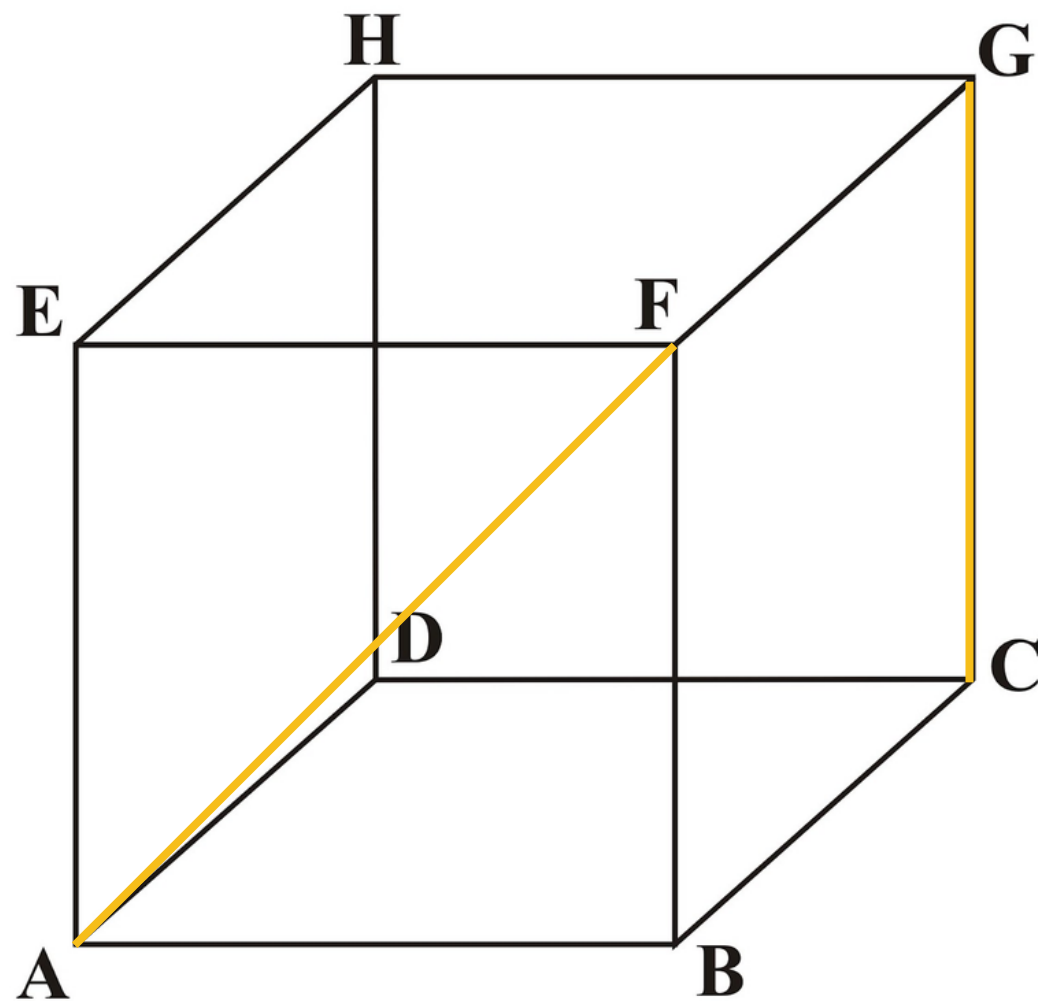
- A. ED dengan FC
- B. AF dengan GC
- C. AG dengan HB

Answer 06



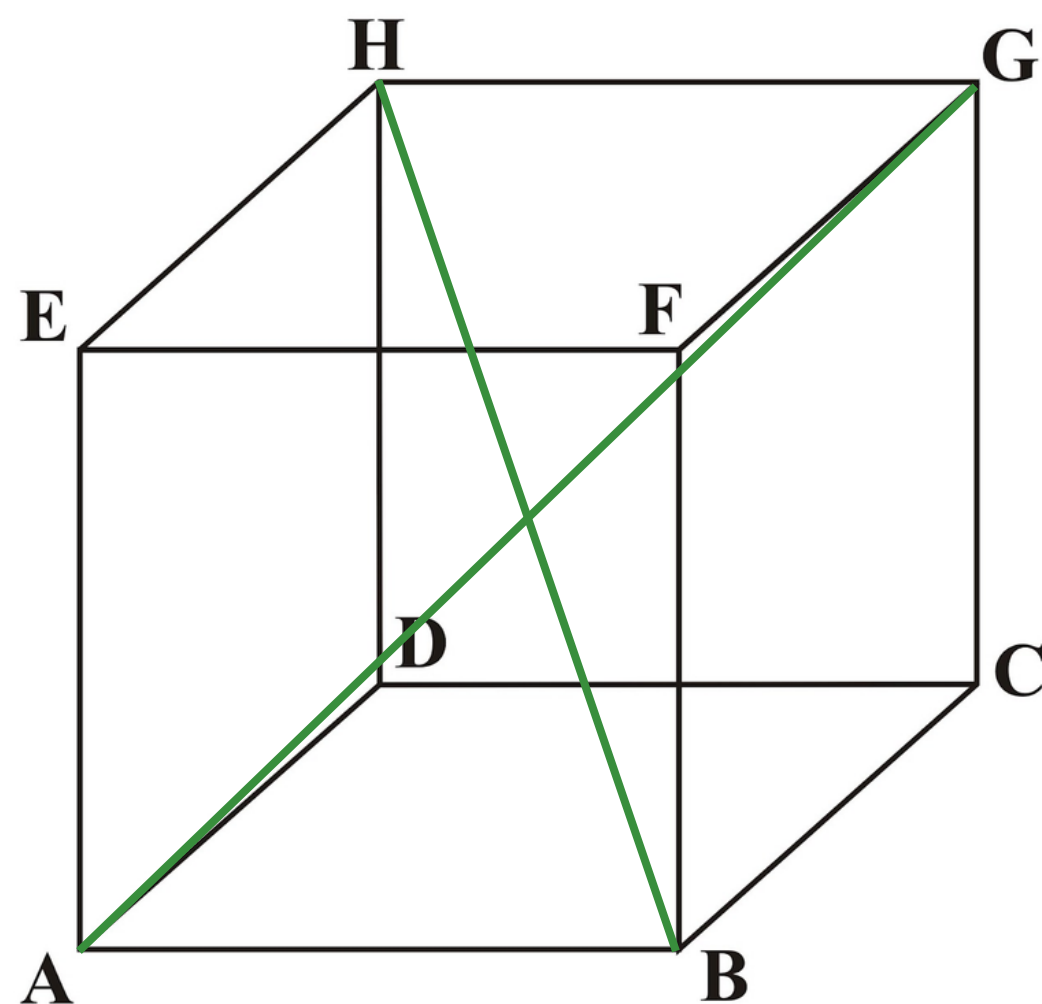
ED dan FC adalah
sejajar

Answer 06



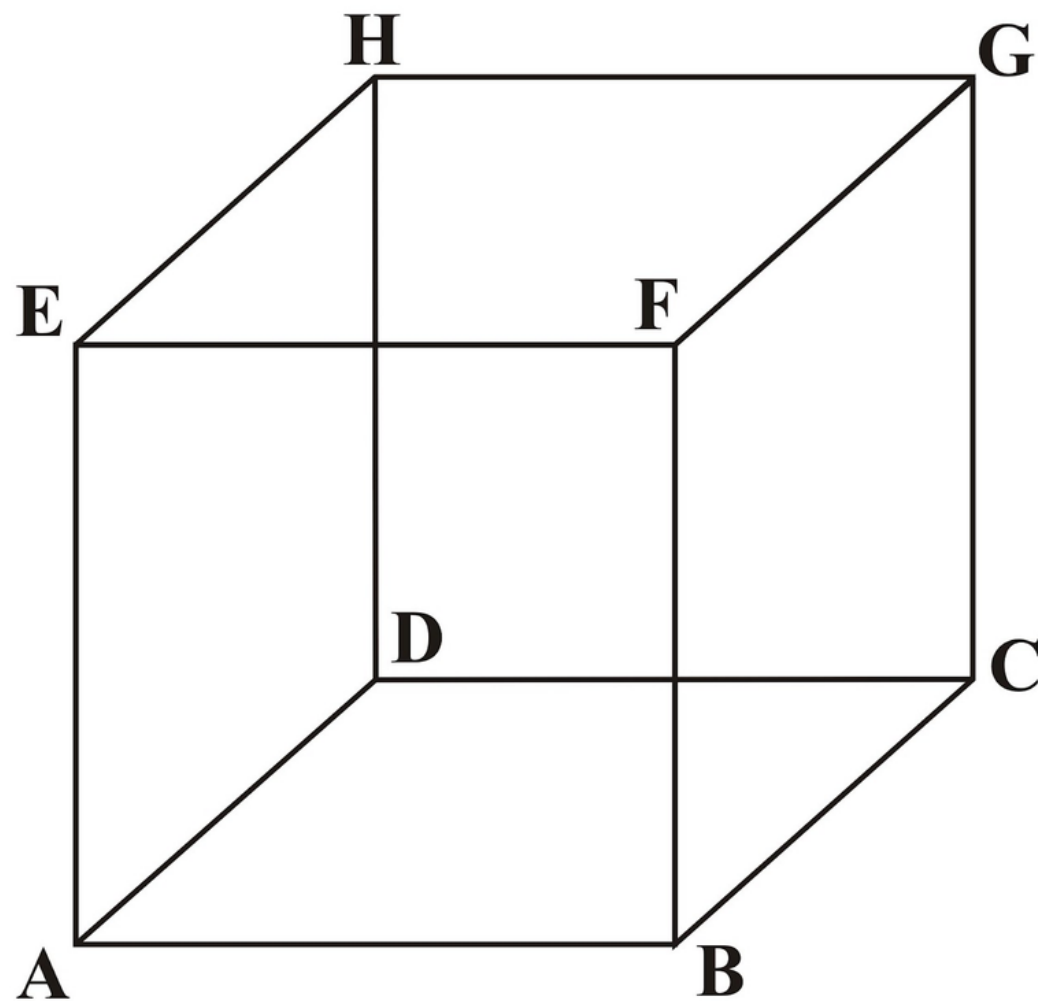
AF dan GC adalah
bersilangan

Answer 06



AG dan HB adalah
berpotongan

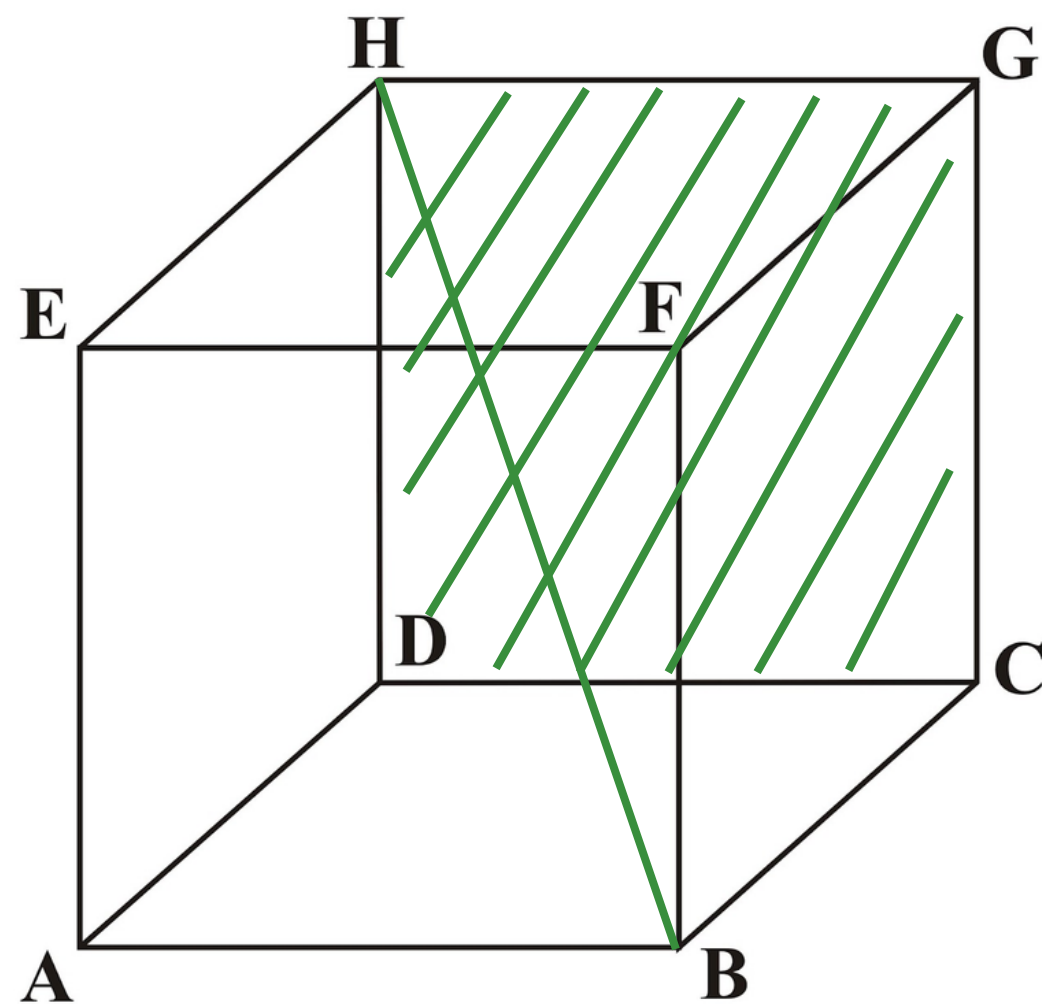
Question 07



Pada kubus ABCD EFGH,
hubungan garis dan bidang
pada pernyataan di bawah
ini adalah

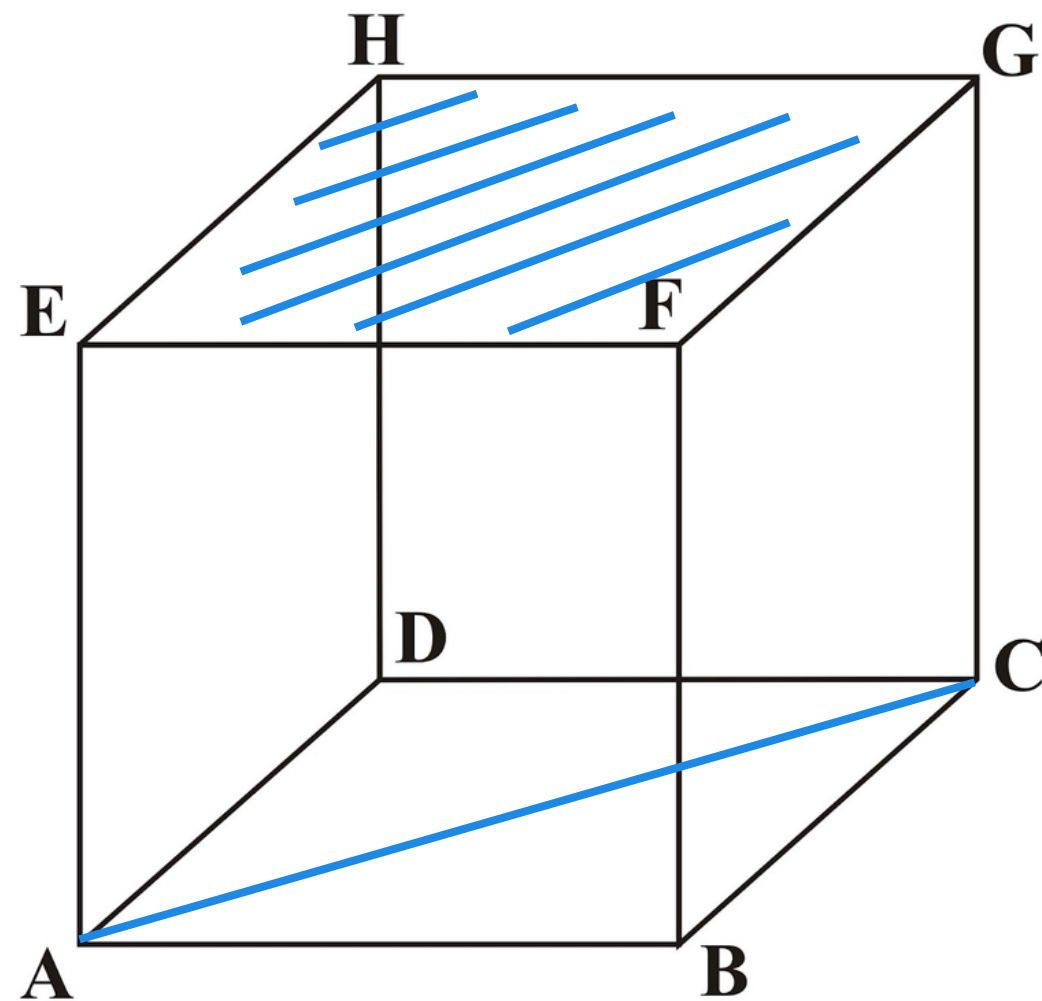
- A. BH dengan CDGH
- B. AC dengan EFGH

Answer 07



HB dan CDHG adalah
berpotongan

Answer 07



AC dan EFGH adalah
sejajar



Thank You!

