1 *Solve the inequality* $2x^2 - 3x - 5 < 0$

Represent the solution set on the number line.

$-5 \quad -4 \quad -3 \quad -2 \quad -1 \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad x$
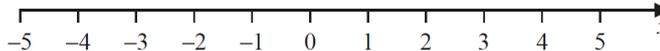
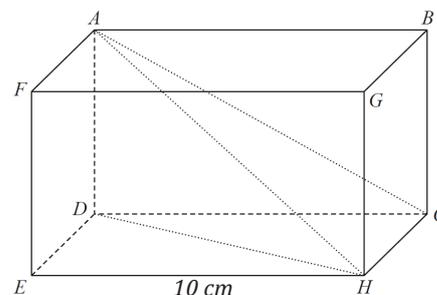**Green Pen Corrections and Notes**

Answer

(4)

2 *ABCDEFGH is a cuboid.*

Angle EDH $= 60°$ *Angle ACD* $= 30°$ *EH* $= 10cm$

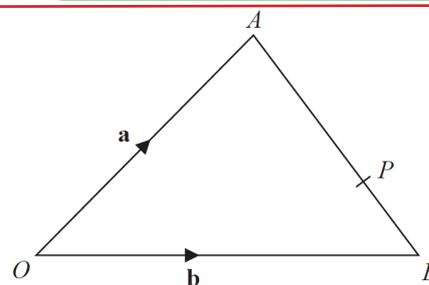*Work out the size of angle AHD.* *Give your answer correct to 1 decimal place.*

$A \qquad B$

$F \qquad G$

$D \qquad C$

$E \qquad 10 \, cm \qquad H$

Answer

Green Pen Corrections and Notes

(4)

3 *OAB is a triangle.* $\overrightarrow{OA} = \boldsymbol{a}$ $\overrightarrow{OB} = \boldsymbol{b}$

P is the point on AB such that AP : PB $= 4 : 1$

Find $\overrightarrow{OP}$ *in terms of* $\boldsymbol{a}$ *and* $\boldsymbol{b}$. *Give your answer in its simplest form.*

A

$\boldsymbol{a}$

P

O

$\boldsymbol{b}$

B

Answer

Green Pen Corrections and Notes

(3)