Proofs with vectors • X divides OA in the ratio 1:2 • Y is the mid point of AB • What can you work out? What can you deduce?

Proofs with vectors

• X divides OB in the ratio 2: 1

• Y divides BA in the ratio 1: 2

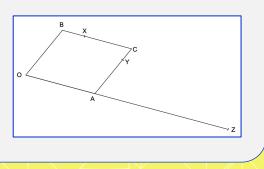
• What can you work out? What can you deduce?

2

Proofs with vectors

KING'S MATHS SCHOOL

- X divides BC in the ratio 1:2
- Y divides CA in the ratio 1:3
- AZ = 2 OA
- What can you work out? What can you deduce?

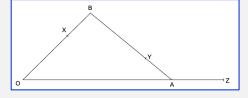


3

Proofs with vectors

KING'S MATHS SCHOOL

- OX = $\frac{5}{8}$ OB
- Y divides BA in the ratio 3:1
- AZ = $\frac{1}{4}$ OA
- What can you work out? What can you deduce?

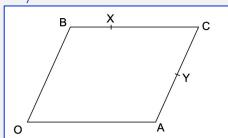


4

Proofs with vectors

KING'S MATHS SCHOOL

- X divides BC in the ratio 1:2
- Y is the midpoint of CA
- P is the point on XY which divides it in the ratio 4:3
- Q is the point on OC with OQ = $\frac{5}{7}$ OC
- What can you work out?
- What can you deduce?

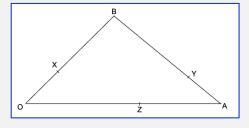


5

Proofs with vectors

KING'S MATHS SCHOOL

- OX = $\frac{1}{3}$ OB
- Y divides BA in the ratio 3:1
- OZ = $\frac{3}{5}$ OA
- What can you work out? What can you deduce?



6