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□ □ □ 2 12 4 3 10 40 11 30

□ □ □
 □ □ □ 5 40 18 22

□ □ □
 □ □ □ 1.

2.

3.

4.

40

23

14

3 2/3

□

□ □ □ □ □ □ □ 1 2 □
 □ □ □ □

$$\vec{p} = s\vec{a} + t\vec{b} + u\vec{c} \quad \begin{matrix} 3 \\ s + t + u = 1 \end{matrix} \quad \begin{matrix} \vec{a} \\ \vec{b} \\ \vec{c} \end{matrix} \quad \begin{matrix} s \\ t \\ u \end{matrix} \quad \begin{matrix} \vec{p} \\ 3 \end{matrix} \quad \begin{matrix} \square \\ \square \end{matrix}$$

□ □ □

1.

2.

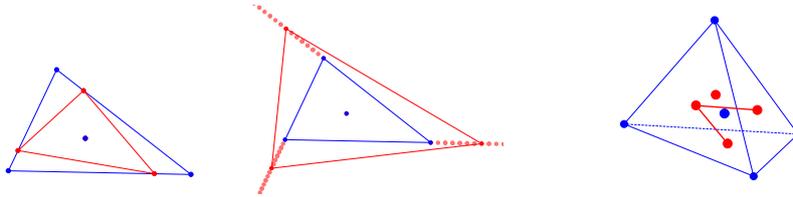
- 1.
- 2.

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P Q R
P Q R
ABCD
P Q R

P Q R S

PQRS



ABCD

P Q R S

s =

$t = u = 1/3$

s, t, u

P Q R S
P Q R
(t) $0 < t < 1$
CQ AR , $\overline{BP} = t\overline{BC}$ $\overline{CQ} = t\overline{CA}$ $\overline{AR} = t\overline{AB}$
P Q R BP

$\overline{AP} = t\overline{AB} + u\overline{AC}$ $\overline{BQ} = t\overline{BC} + u\overline{BD}$
 $\overline{CR} = t\overline{CD} + u\overline{CA}$ $\overline{DS} = t\overline{DA} + u\overline{DB}$ (t, u)
 $t > 0, u > 0, 0 < t + u < 1$ ABC

$\overline{AP'} = \frac{t\overline{AB} + u\overline{AC}}{u+t}$ BC P' P'
BC u t P AP'
AP' AP = 1 (t + u)

Q R S
P Q R S AP BQ CR DS
P Q R S

$t < 0$

P Q R S

