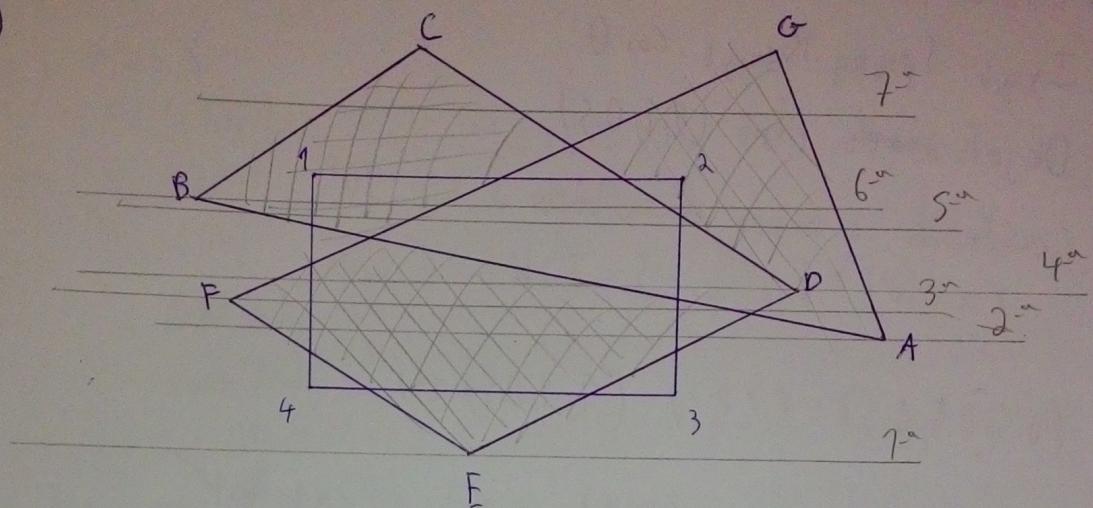


I-2011-2012-EXAME-NORMAL

②



TAA

Linha	Arestas
-	NIL
1 <sup>a</sup>	$EF \rightarrow ED$
2 <sup>a</sup>	$EF \rightarrow ED \rightarrow AB \rightarrow AG$
3 <sup>a</sup>	$FG \rightarrow GD \rightarrow AB \rightarrow AG$
4 <sup>a</sup>	$FG \rightarrow AB \rightarrow DC \rightarrow AG$
5 <sup>a</sup>	$AB \rightarrow FG \rightarrow DC \rightarrow AG$
6 <sup>a</sup>	$BC \rightarrow FG \rightarrow DC \rightarrow AG$
7 <sup>a</sup>	$BC \rightarrow DC \rightarrow FG \rightarrow AG$

e) ?

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(6) a)  $MV = I$

(4) a) Reflexão Difusa

(6) I - 2011-2012- EXAME-NORMAL

$$I_{r,g,b} = I_{p,r,g,b} \cdot K_{d,r,g,b} \cdot \cos \theta$$

Objeto amarelo chama (1,1,0.5)

Considerando o ângulo de incidência da luz  $90^\circ$

$$\cos(90^\circ) = 1, \text{ logo } I = I \cdot K$$

•  $(0.5, 0.5, 0.5) = (?, ?, ?) \cdot (1, 1, 0.5)$  (2)

(2)  $(?, ?, ?) = (0.5, 0.5, 1) \rightarrow$  Pode ser círculo ✓

•  $(1, 0.5, 0) = (?, ?, ?) \cdot (1, 1, 0.5)$  (2)

(2)  $(?, ?, ?) = (1, 0.5, 0) \rightarrow$  Pode ser laranja ✓

•  $(1, 0, 0) = (?, ?, ?) \cdot (1, 1, 0.5)$  (2)

(2)  $(?, ?, ?) = (1, 0, 0) \rightarrow$  Pode ser Vermelho ✓

•  $(0.5, 1, 1) = (?, ?, ?) \cdot (1, 1, 0.5)$  (2)

(2)  $(?, ?, ?) = (0.5, 1, 2) \rightarrow$  Não pode ser círculo branco, pois  
o coeficiente só varia entre 0 e 1

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⑥ a)  $MV = I$

$MV, S(1,2,3);$

$MV, R2(10);$

$Push(MV);$

$MV,RX(35);$

$Push(MV);$

$MV, S(3,2,1);$

$MV, R2(12);$

$MV, T(5,7,7)$

$P1();$

$Pop(MV);$

$Push(MV);$

$MV,T(0,20,20);$

$MV, RX(7);$

$P2();$

$Pop(MV);$

$Pop(MV);$

~~$Push(MV);$~~

$MV,T(6,7,8);$

$MV, S(4,7,4);$

$MV, RY(5);$

$P3();$

$Pop(MV);$