

【】 光の性質

【】 光源と光の反射

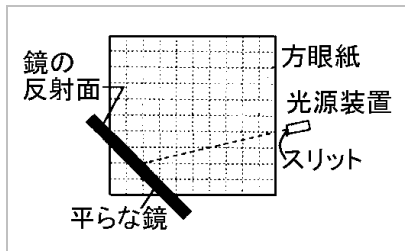
[解答欄 1]

入射角：	反射角：	
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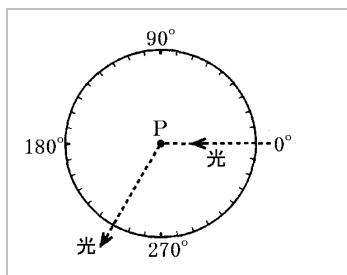
[解答欄 2]

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[解答欄 3]



[解答欄 4]



[解答欄 5]

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[解答欄 6]

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[解答欄 7]

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【】鏡に映る像の範囲

[解答欄 8]

[解答欄 9]

[解答欄 10]

[解答欄 11]

[解答欄 12]

[解答欄 13]

[解答欄 14]

(1)	(2)
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[解答欄 15]

(1)

(2)

[解答欄 16]

(1)	(2)
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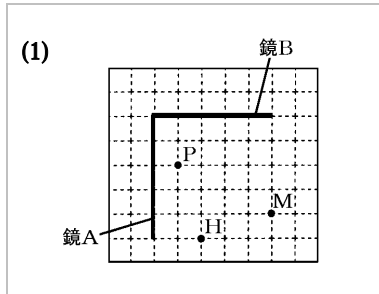
[解答欄 17]

(1)	(2)	(3)
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【】2枚の鏡のときの像

[解答欄 18]

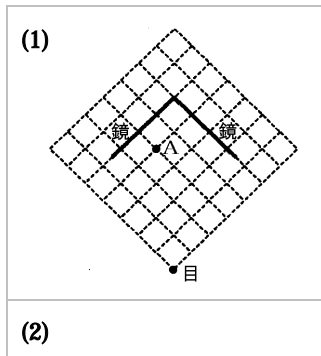
[解答欄 19]



(2)

[解答欄 20]

[解答欄 21]



(2)

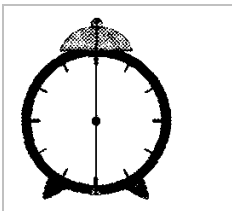
[解答欄 22]

(1)	(2)
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[解答欄 23]

(1)	(2)	
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[解答欄 24]



【】光の屈折

[解答欄 25]

[解答欄 26]

[解答欄 27]

屈折角：	反射角：
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[解答欄 28]

[解答欄 29]

(1)	(2)
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[解答欄 30]

空気中を進む光：	水中を進む光：
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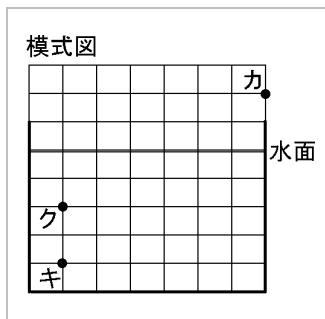
[解答欄 31]

反射角：	屈折角：
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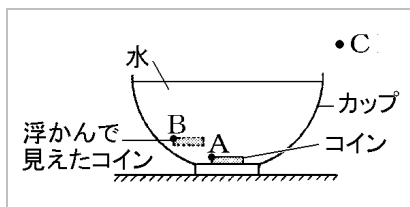
[解答欄 32]

【】水中の物体が浮き上がって見える現象

[解答欄 33]

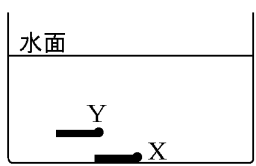


[解答欄 34]



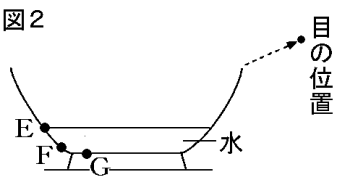
[解答欄 35]

(1)
(2) •P



[解答欄 36]

(1)	(3)	(4)
(2) 図2		



[解答欄 37]

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[解答欄 38]

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[解答欄 39]

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【】 ガラスを通して見たときの像のずれ

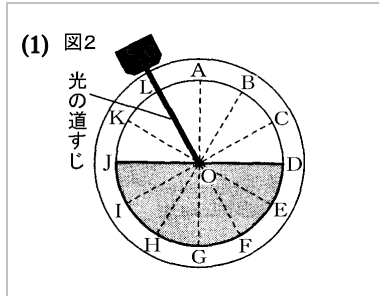
[解答欄 40]

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[解答欄 41]

(1)	(2)
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[解答欄 42]



(2)	(3)	(4)
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【】光の全反射

[解答欄 43]

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[解答欄 44]

(1)	(2)
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[解答欄 45]

(1)	(2)
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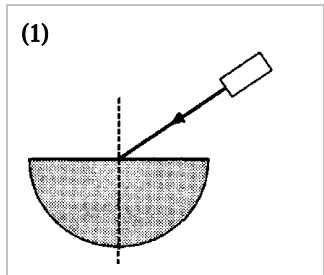
[解答欄 46]

(1)	(2)
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[解答欄 47]

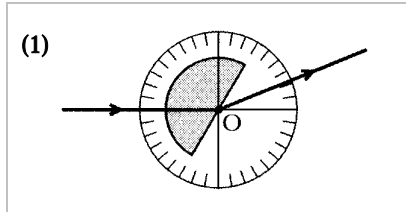
(1)	(2)
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[解答欄 48]



(2)

[解答欄 49]



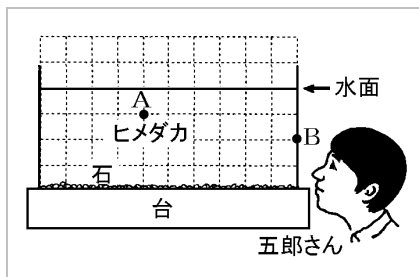
(2)	(3)		(4)
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【】 光の全反射

[解答欄 50]

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[解答欄 51]



[解答欄 52]

(1)		(2)	
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[解答欄 53]

(1)	(2)	(3)
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【】 凸レンズの焦点と光の進み方

[解答欄 54]

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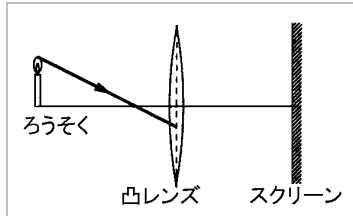
[解答欄 55]

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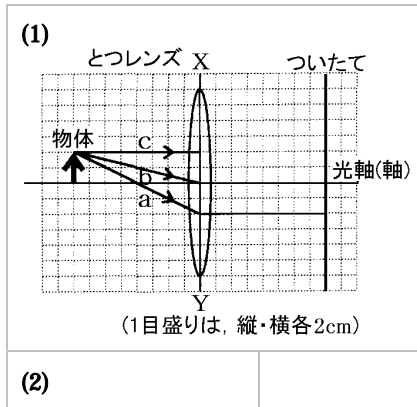
[解答欄 56]

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[解答欄 57]



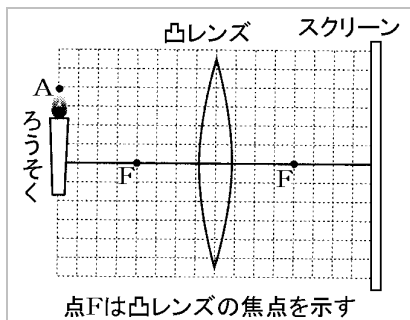
[解答欄 58]



【】スクリーンに映る実像の見え方

[解答欄 59]

[解答欄 60]



[解答欄 61]

[解答欄 62]

[解答欄 63]

[解答欄 64]

[解答欄 65]

[解答欄 66]

【】実物と同じ大きさの実像・焦点距離

[解答欄 67]

[解答欄 68]

[解答欄 69]

[解答欄 70]

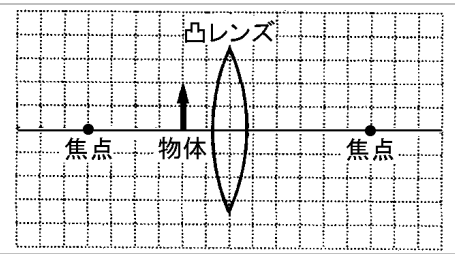
【】レンズをおおったときの像の変化

[解答欄 71]

[解答欄 72]

【】凸レンズによってできる虚像

[解答欄 73]



[解答欄 74]

[解答欄]

(1)	(2)
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[解答欄 75]

[解答欄 76]

[解答欄 77]

【】物体の位置を変えたとき

[解答欄 78]

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[解答欄 79]

(1)	(2)
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[解答欄 80]

[解答欄 81]

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[解答欄 82]

[解答欄 83]

(1)像(a) :	像(b) :	(2)	(3)
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[解答欄 84]

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[解答欄 85]

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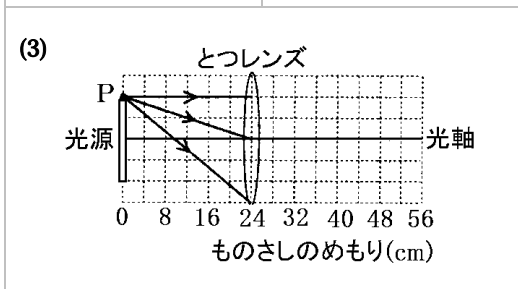
【】凸レンズ：総合問題

[解答欄 86]

(1)	(2)		
(3)	(5)		

[解答欄 87]

(1)	(2)	(4)	(5)a
b			



[解答欄 88]

(1)	(2)
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[解答欄 89]

(1)	(2)	(3)
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[解答欄 90]

(1)	(2)大きさ：	明るさ：	(3)A：
B：			