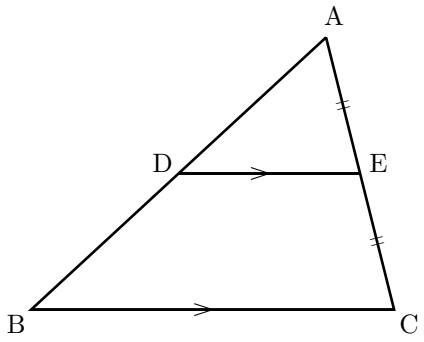
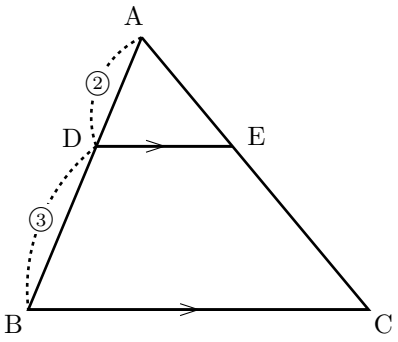
反射テスト　相似と面積比　三角形と平行線　01

1.　下図の三角形の内部に面積比を書き込め.（ S 級 35 秒, A 級 50 秒, B 級 1 分 40 秒, C 級 2 分 40 秒 ）

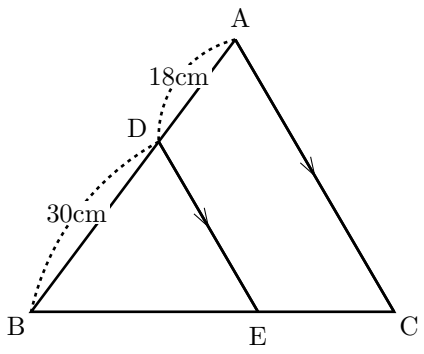
(1)



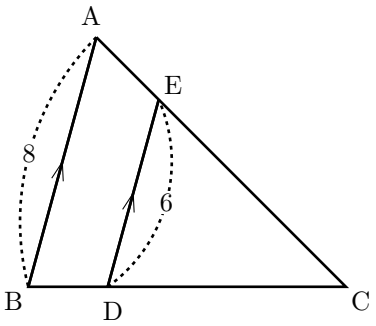
(2)



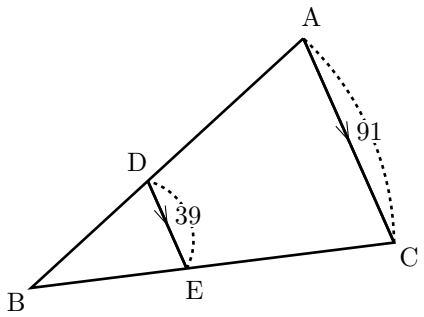
(3)



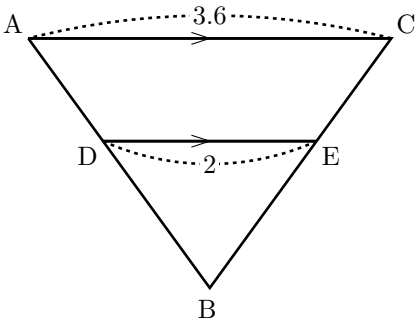
(4)



(5)

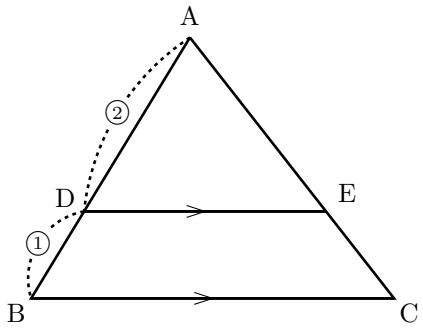


(6)

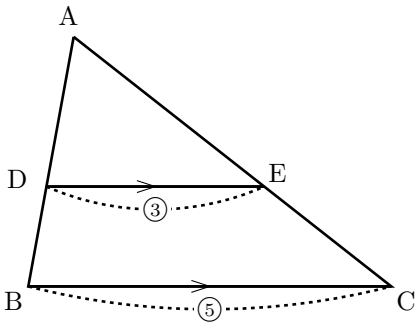


2. 下図の三角形の内部に面積比を書き込め. (S 級 35 秒, A 級 50 秒, B 級 1 分 40 秒, C 級 2 分 40 秒)

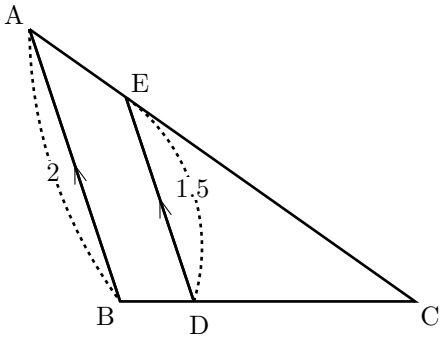
(1)



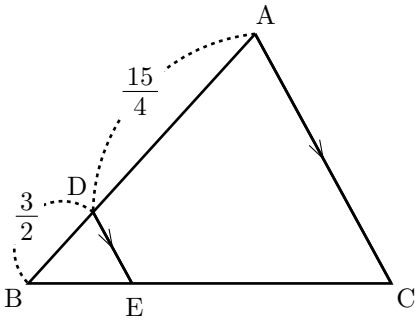
(2)



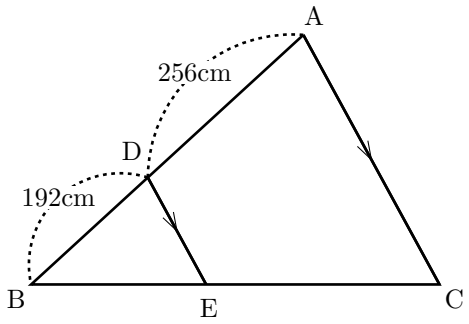
(3)



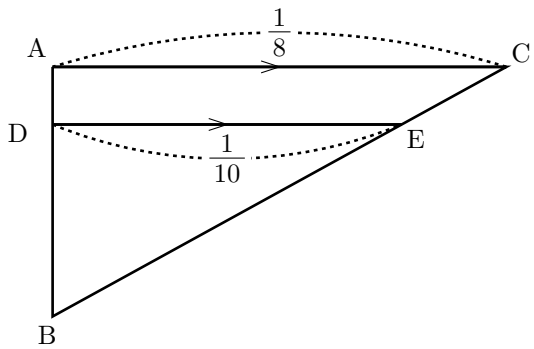
(4)



(5)



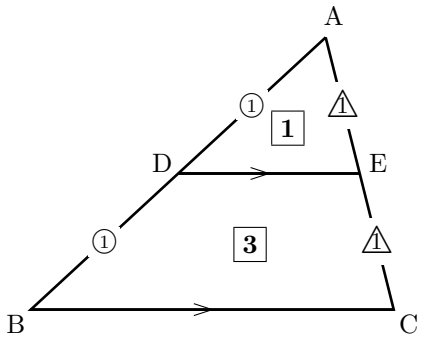
(6)



反射テスト　相似と面積比　三角形と平行線　01　解答解説

1.　下図の三角形の内部に面積比を書き込め．(S 級 35 秒，A 級 50 秒，B 級 1 分 40 秒，C 級 2 分 40 秒)

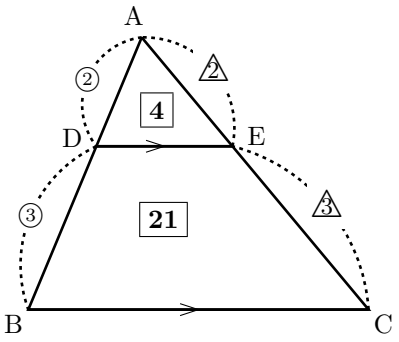
(1)



$\triangle ADE : \triangle ABC = \left(① \times \triangle 1\right) : \left(② \times \triangle 2\right) = \boxed{1} : \boxed{4}$

$\Rightarrow$　台形 DBCE $= \boxed{4} - \boxed{1} = \boxed{3}$

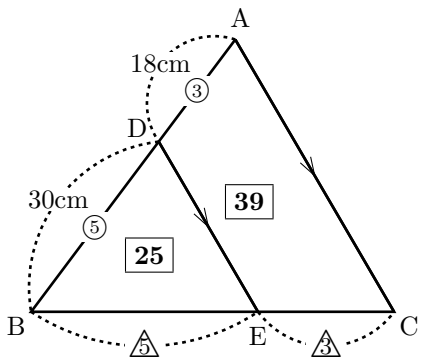
(2)



$\triangle ADE : \triangle ABC = \left(② \times \triangle 2\right) : \left(⑤ \times \triangle 5\right) = \boxed{4} : \boxed{25}$

$\Rightarrow$　台形 DBCE $= \boxed{25} - \boxed{4} = \boxed{21}$

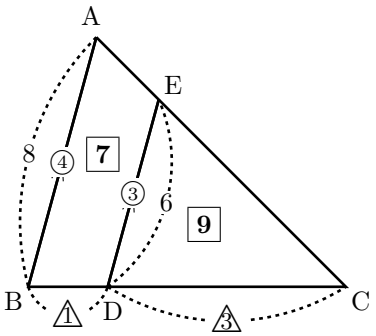
(3)



$\triangle DBE : \triangle ABC = \left(⑤ \times \triangle 5\right) : \left(⑧ \times \triangle 8\right) = \boxed{25} : \boxed{64}$

$\Rightarrow$　台形 DECA $= \boxed{64} - \boxed{25} = \boxed{39}$

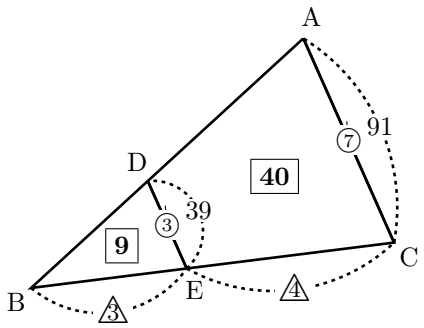
(4)



$\triangle EDC : \triangle ABC = \left(③ \times \triangle 3\right) : \left(④ \times \triangle 4\right) = \boxed{16} : \boxed{9}$

$\Rightarrow$　台形 ABDE $= \boxed{16} - \boxed{9} = \boxed{7}$

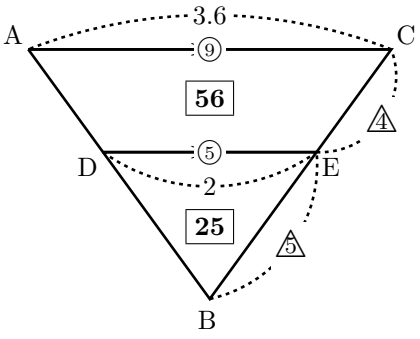
(5)



$\triangle DBE : \triangle ABC = \left(③ \times \triangle 7\right) : \left(③ \times \triangle 7\right) = \boxed{9} : \boxed{49}$

$\Rightarrow$　台形 DECA $= \boxed{49} - \boxed{9} = \boxed{40}$

(6)

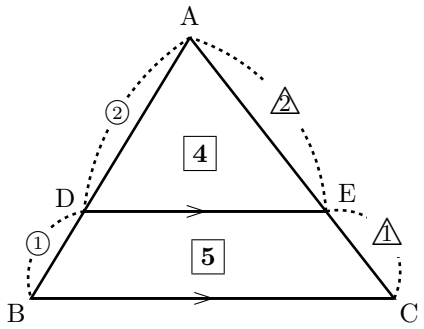


$\triangle DBE : \triangle ABC = \left(⑤ \times \triangle 5\right) : \left(⑨ \times \triangle 9\right) = \boxed{25} : \boxed{81}$

$\Rightarrow$　台形 ADEC $= \boxed{81} - \boxed{25} = \boxed{56}$

2. 下図の三角形の内部に面積比を書き込め．（ S 級 35 秒，A 級 50 秒，B 級 1 分 40 秒，C 級 2 分 40 秒 ）

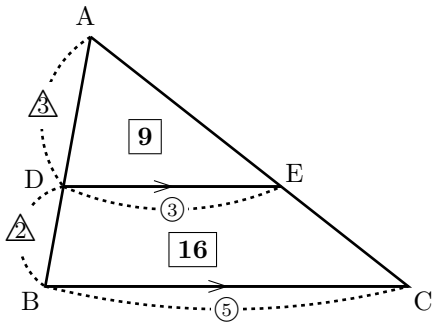
(1)



$\triangle ADE : \triangle ABC = \left(② \times \triangle 2\right) : \left(③ \times \triangle 3\right) = \boxed{4} : \boxed{9}$

$\Rightarrow$ 台形 DBCE $= \boxed{9} - \boxed{4} = \boxed{5}$

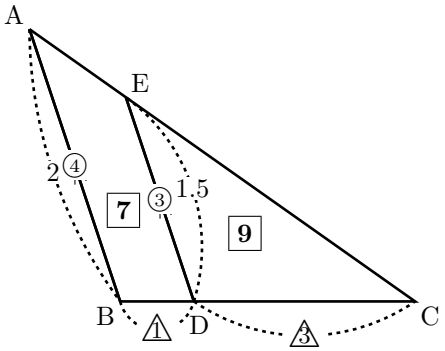
(2)



$\triangle ADE : \triangle ABC = \left(③ \times \triangle 3\right) : \left(⑤ \times \triangle 5\right) = \boxed{9} : \boxed{25}$

$\Rightarrow$ 台形 DBCE $= \boxed{25} - \boxed{9} = \boxed{16}$

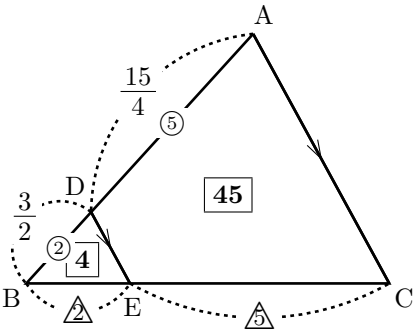
(3)



$\triangle EDC : \triangle ABC = \left(③ \times \triangle 3\right) : \left(④ \times \triangle 4\right) = \boxed{16} : \boxed{9}$

$\Rightarrow$ 台形 ABDE $= \boxed{16} - \boxed{9} = \boxed{7}$

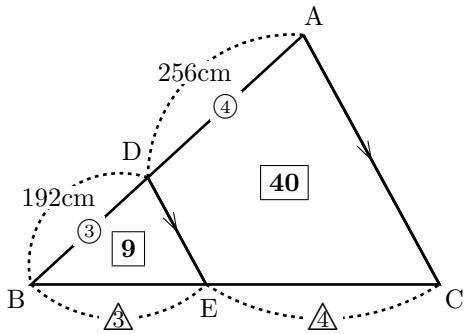
(4)



$\triangle DBE : \triangle ABC = \left(② \times \triangle 2\right) : \left(⑦ \times \triangle 7\right) = \boxed{4} : \boxed{49}$

$\Rightarrow$ 台形 DECA $= \boxed{49} - \boxed{4} = \boxed{45}$

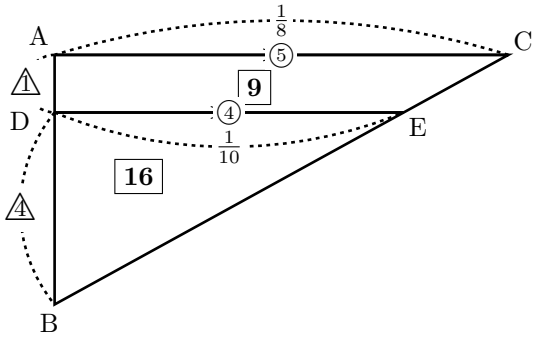
(5)



$\triangle DBE : \triangle ABC = \left(③ \times \triangle 3\right) : \left(⑦ \times \triangle 7\right) = \boxed{9} : \boxed{49}$

$\Rightarrow$ 台形 DECA $= \boxed{49} - \boxed{9} = \boxed{40}$

(6)



$\triangle DBE : \triangle ABC = \left(④ \times \triangle 4\right) : \left(⑤ \times \triangle 5\right) = \boxed{16} : \boxed{25}$

$\Rightarrow$ 台形 ADEC $= \boxed{25} - \boxed{16} = \boxed{9}$