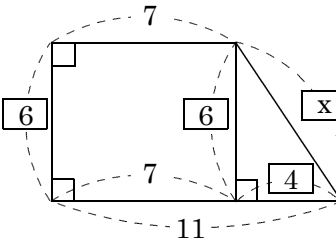
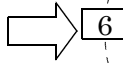
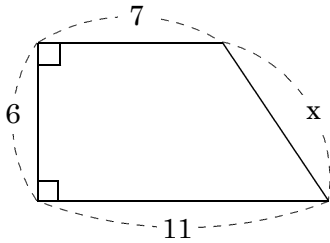


応用1

補助線をひいて直角三角形をつくる



$$6^2 + 4^2 = x^2$$

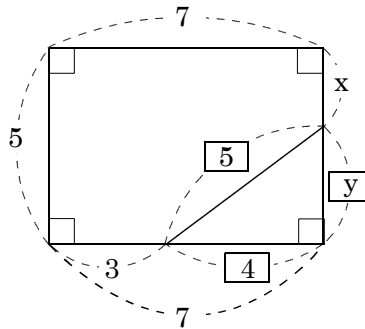
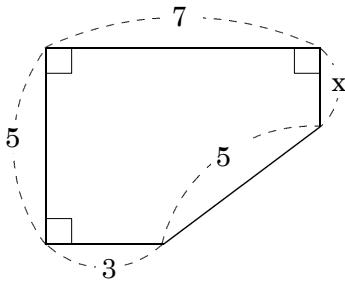
$$36 + 16 = x^2$$

$$52 = x^2$$

$$\sqrt{52} = x$$

$$2\sqrt{13} = x$$

応用2



$$y^2 + 4^2 = 5^2$$

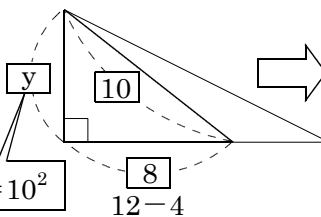
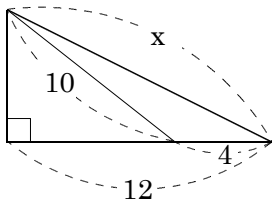
$$y^2 + 16 = 25$$

$$y^2 = 9$$

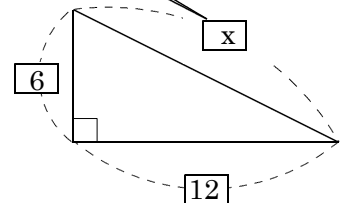
$$y = 3$$

$$x = 5 - 3 = 2$$

応用3



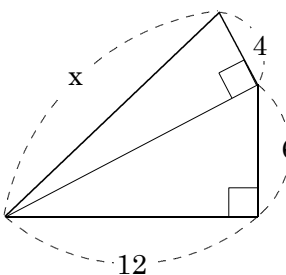
$$6^2 + 12^2 = x^2 \Rightarrow x = 6\sqrt{5}$$



$$8^2 + y^2 = 10^2$$

$$y = 6$$

応用4

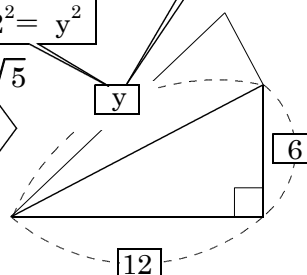


$$6^2 + 12^2 = y^2$$

$$y = 6\sqrt{5}$$



はじめに三平方の定理で  
この長さを求める



$$4^2 + (6\sqrt{5})^2 = x^2 \Rightarrow x = 14$$

