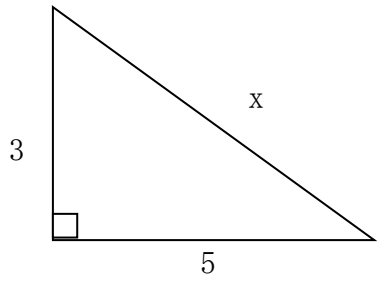
三平方の定理の基本

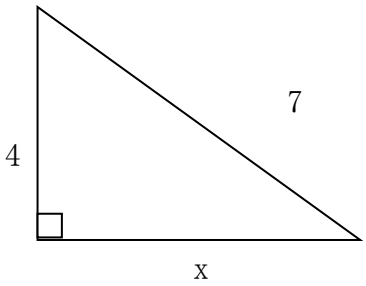
NO 1　　名前　　／6　点

□　下の図の直角三角形で，xを求めなさい。

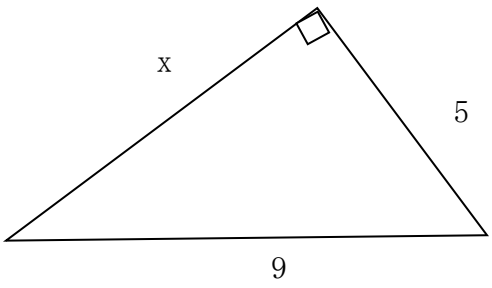
①



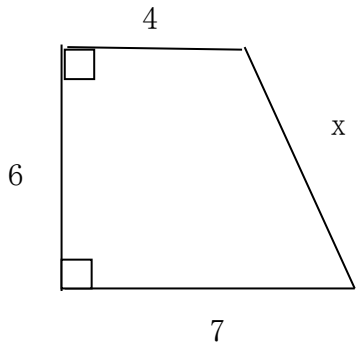
②



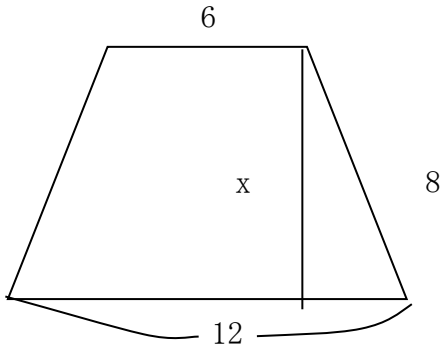
③



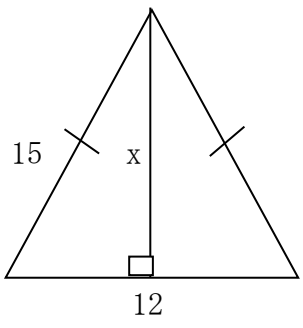
④



⑤



⑥



解答

① $x^2 = 3^2 + 5^2$

$x^2 = 34$

xは正の数だから，

$x = \sqrt{34}$

② $7^2 = 4^2 + x^2$

$x^2 = 33$

xは正の数だから，

$x = \sqrt{33}$

③ $9^2 = 5^2 + x^2$

$x^2 = 56$

xは正の数だから，

$x = \sqrt{56}$

$= 2\sqrt{14}$

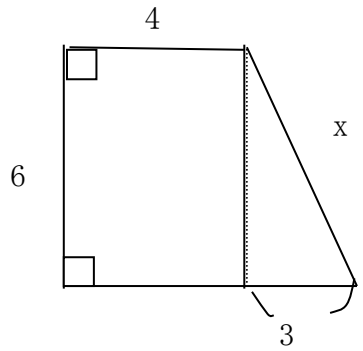
④ $x^2 = 6^2 + 3^2$

$x^2 = 45$

xは正の数だから，

$x = \sqrt{45}$

$= 3\sqrt{5}$



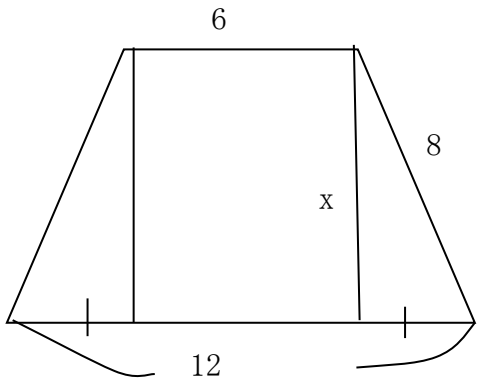
⑤ $(12 - 6) \div 2 = 3$

$8^2 = 3^2 + x^2$

$x^2 = 55$

xは正の数だから，

$x = \sqrt{55}$



⑥ $15^2 = 6^2 + x^2$

$x^2 = 189$

xは正の数だから，

$x = \sqrt{189}$

$= 3\sqrt{21}$