解答

## 1. 三平方の定理２

(1) $x = 2\sqrt{14}$
$S = 8\sqrt{3}$

(2) $x = 7\sqrt{2}$
$S = 7\sqrt{6}$

(3) $x = 3\sqrt{11}$
$S = 11\sqrt{5}$

(4) $x = 2\sqrt{26}$
$S = 7\sqrt{3}$

(5) $x = 3\sqrt{6}$
$S = \frac{5}{2}\sqrt{29}$

(6) $x = 2\sqrt{22}$
$S = \frac{15}{2}\sqrt{7}$

(7) $x = \sqrt{6}$
$S = \frac{1}{2}\sqrt{30}$

(8) $x = \sqrt{23}$
$S = \frac{3}{2}\sqrt{23}$

(9) $x = 2\sqrt{2}$
$S = \sqrt{14}$

## 2. 三平方の定理２

(1) $x = 3\sqrt{2}$
$S = \sqrt{14}$

(2) $x = 6\sqrt{3}$
$S = 4\sqrt{23}$

(3) $x = 3\sqrt{11}$
$S = \frac{35}{2}\sqrt{2}$

(4) $x = 2\sqrt{11}$
$S = 4\sqrt{7}$

(5) $x = 3\sqrt{10}$
$S = 10\sqrt{5}$

(6) $x = 7\sqrt{2}$
$S = 14\sqrt{3}$

(7) $x = 6\sqrt{2}$
$S = 6\sqrt{10}$

(8) $x = \sqrt{11}$
$S = \sqrt{11}$

(9) $x = 2\sqrt{3}$
$S = 3\sqrt{13}$

## 3. 三平方の定理２

(1) $x = 3\sqrt{13}$
$S = 7\sqrt{17}$

(2) $x = 3\sqrt{7}$
$S = 9\sqrt{3}$

(3) $x = 2\sqrt{22}$
$S = 6\sqrt{13}$

(4) $x = 2\sqrt{11}$
$S = 6\sqrt{2}$

(5) $x = 3\sqrt{6}$
$S = 4\sqrt{11}$

(6) $x = 2\sqrt{22}$
$S = 12\sqrt{2}$

(7) $x = \sqrt{5}$
$S = \sqrt{10}$

(8) $x = \sqrt{6}$
$S = 3\sqrt{11}$

(9) $x = \sqrt{22}$
$S = \frac{11}{2}\sqrt{14}$

## 4. 三平方の定理２

(1) $x = 3\sqrt{10}$
$S = 5\sqrt{14}$

(2) $x = 3\sqrt{5}$
$S = 5\sqrt{5}$

(3) $x = 2\sqrt{7}$
$S = \frac{5}{2}\sqrt{3}$

(4) $x = 2\sqrt{22}$
$S = 8\sqrt{7}$

(5) $x = 3\sqrt{3}$
$S = \sqrt{23}$

(6) $x = 2\sqrt{30}$
$S = 8\sqrt{11}$

(7) $x = 4\sqrt{2}$
$S = 10\sqrt{2}$

(8) $x = \sqrt{3}$
$S = \frac{1}{2}\sqrt{21}$

(9) $x = 3$
$S = 3\sqrt{2}$

## 5. 三平方の定理２

(1) $x = 3\sqrt{10}$
$S = 10\sqrt{2}$

(2) $x = 2\sqrt{21}$
$S = \frac{21}{2}\sqrt{3}$

(3) $x = 4\sqrt{2}$
$S = \frac{3}{2}\sqrt{23}$

(4) $x = 2\sqrt{19}$
$S = 3\sqrt{33}$

(5) $x = 6\sqrt{3}$
$S = \frac{15}{2}\sqrt{11}$

(6) $x = 5\sqrt{2}$
$S = 5\sqrt{6}$

(7) $x = 5$
$S = \frac{15}{2}\sqrt{2}$

(8) $x = 2\sqrt{2}$
$S = 2\sqrt{11}$

(9) $x = 6$
$S = 9\sqrt{3}$

## 6. 三平方の定理２

(1) $x = 2\sqrt{14}$
$S = 3\sqrt{19}$

(2) $x = 2\sqrt{14}$
$S = 6\sqrt{5}$

(3) $x = 2\sqrt{22}$
$S = 8\sqrt{6}$

(4) $x = 3\sqrt{10}$
$S = 4\sqrt{29}$

(5) $x = 2\sqrt{30}$
$S = 8\sqrt{11}$

(6) $x = 3\sqrt{7}$
$S = 6\sqrt{5}$

(7) $x = 3\sqrt{3}$
$S = 3\sqrt{21}$

(8) $x = 5$
$S = \frac{5}{2}\sqrt{21}$

(9) $x = 8$
$S = 4\sqrt{22}$

## 7. 三平方の定理２

(1) $x = 2\sqrt{30}$
$S = 9\sqrt{11}$

(2) $x = 7\sqrt{2}$
$S = \frac{9}{2}\sqrt{17}$

(3) $x = 3\sqrt{6}$
$S = \frac{5}{2}\sqrt{29}$

(4) $x = 3\sqrt{13}$
$S = 5\sqrt{17}$

(5) $x = 2\sqrt{29}$
$S = 8\sqrt{13}$

(6) $x = 2\sqrt{23}$
$S = 6\sqrt{14}$

(7) $x = 4$
$S = 6\sqrt{5}$

(8) $x = \sqrt{6}$
$S = 3\sqrt{6}$

(9) $x = \sqrt{15}$
$S = \sqrt{30}$

## 8. 三平方の定理２

(1) $x = 3\sqrt{6}$
$S = 2\sqrt{23}$

(2) $x = 5\sqrt{3}$
$S = \frac{9}{2}\sqrt{14}$

(3) $x = 2\sqrt{15}$
$S = \frac{7}{2}\sqrt{11}$

(4) $x = 2\sqrt{30}$
$S = 20\sqrt{2}$

(5) $x = 3\sqrt{6}$
$S = \frac{5}{2}\sqrt{29}$

(6) $x = 2\sqrt{7}$
$S = \frac{5}{2}\sqrt{3}$

(7) $x = \sqrt{2}$
$S = \sqrt{14}$

(8) $x = 5$
$S = \frac{5}{2}\sqrt{23}$

(9) $x = 3$
$S = \frac{9}{2}\sqrt{2}$