

【】 対頂角・平行線と角

[対頂角]

[解答 1]80

[平行線と角]

[解答 2]130°

[解答 3]140°

[解答 4]∠c と ∠e

[平行な補助線を引く]

[解答 5]47°

[解答 6]71°

[解答 7]38°

[解答 8]44°

[解答 9]65°

[解答 10]62°

[解答 11]70°

[解答 12]70°

【】 三角形と角

[内角の和, 外角]

[解答 13]103°

[解答 14]139°

[解答 15]97°

[解答 16]120°

[平行線と三角形の内角・外角]

[解答 17]65°

[解答 18]79°

[解答 19]117°

[解答 20]35°

[解答 21]29°

[解答 22]135°

[解答 23]45°

[三角形が2つ]

[解答 24]34°

[解答 25]43°

[解答 26]72°

[解答 27]56°

[解答 28]40°

[解答 29]22°

[角の二等分線]

[解答 30]110°

[解答 31]130°

[解答 32]21°

[解答 33]

△BCDにおいて、三角形の外角は、そのとなりにない2つの内角の和に等しいので、

$$\angle BCD + 2a = 2b$$

$$\angle BCD = 2b - 2a = 2(b - a) \cdots \textcircled{1}$$

同様に、△BEDにおいて、

$$\angle BED + a = b$$

$$\angle BED = b - a \cdots \textcircled{2}$$

$$\textcircled{1}, \textcircled{2} \text{より}, \angle BCD = 2\angle BED$$

【】 二等辺三角形・正三角形

[二等辺三角形]

[解答 34]48°

[解答 35]85°

[解答 36]80°

[解答 37]25°

[解答 38](1) 110° (2) $\frac{22}{3}\pi$ cm

[解答 39]22°

[解答 40]30°

[解答 41]51°

[解答 42] $\angle x = 20^\circ$ $\angle y = 40^\circ$ $\angle z = 70^\circ$

[解答 43]30°

[解答 44]130°

[解答 45]18°

[正三角形]

[解答 46] $a + 20(^{\circ})$

[解答 47] 105°

[解答 48] 47°

[解答 49] $60 - a(^{\circ})$

【】 平行四辺形と角

[向かいあう角]

[解答 50] 112°

[解答 51] 42°

[解答 52] 53°

[解答 53] 40°

[解答 54] 79°

[解答 55] $105 - a(^{\circ})$

[解答 56] 100°

[解答 57] 39°

[解答 58] $\angle x = 100^{\circ}$ $\angle y = 20^{\circ}$

[平行四辺形+二等辺三角形]

[解答 59] 55°

[解答 60] 40°

[解答 61] 76°

[解答 62] 35°

[解答 63] 55°

[解答 64] 140°

[解答 65] 72°

[解答 66] 65°

[解答 67] 32°

[解答 68] 76°

[解答 69] 66°

[解答 70] 21°

【】 多角形の内角の和・外角の和

[多角形の内角の和]

[解答 71]ア 180 イ 360

[解答 72]900°

[解答 73]135°

[解答 74] $n=9$

[解答 75]72°

[多角形の外角の和]

[解答 76]ア $180^\circ \times (n-2)$ イ 360

[解答 77]65°

[解答 78]73°

[解答 79]120°

[解答 80]79°

【】 多角形の角：応用

[解答 81]102°

[解答 82]106°

[解答 83]25°

[解答 84]72°

[解答 85]117°

[解答 86]103°

[解答 87]80°

[解答 88]17°

[解答 89]20°

[解答 90]40°

[解答 91]138°

[解答 92]16°

[星形その他]

[解答 93]180°

[解答 94]118°

[解答 95]102°