# QUADRILÁTEROS I

**Prof.:** L. Santos
**Data:** 24 de março de 2019

**Q1.** Calcule o valor de $x$ na figura 1:

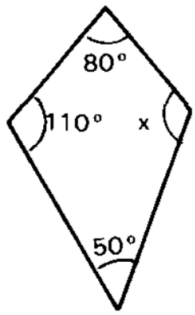


Figura 1

**Q2.** Calcule o valor de $x$ na figura 2:

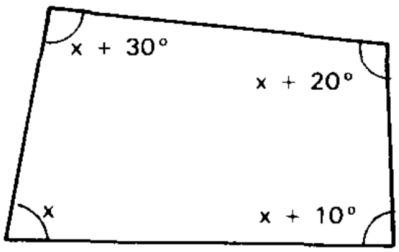


Figura 2

**Q3.** Calcule os ângulos do quadrilátero $ABCD$ na figura 3:

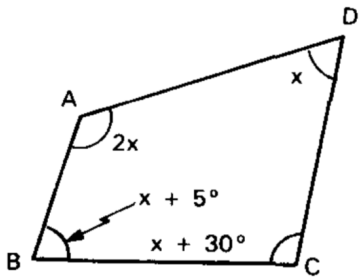


Figura 3

**Q4.** Calcule os ângulos do quadrilátero $ABCD$ na figura 4:

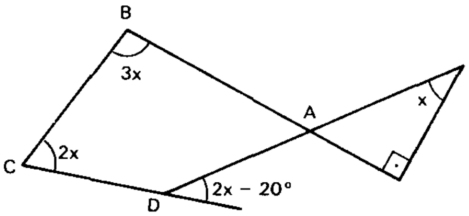


Figura 4

**Q5.** Calcule $x$ sabendo que $PA = PB$ na figura 5:

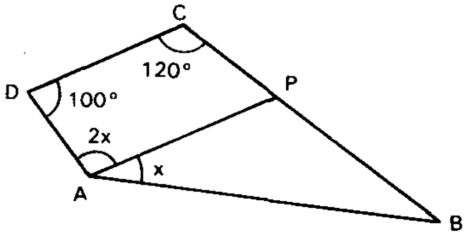


Figura 5

**Q6.** Calcule $x$ sabendo que $AB = AD$ e $CB = CD$ na figura 6:

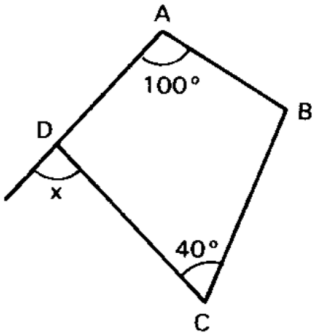


Figura 6

**Q7.** Sabendo que $\overline{AP}$ e $\overline{BP}$ são bissetrizes, calcule $x$ na figura 7:

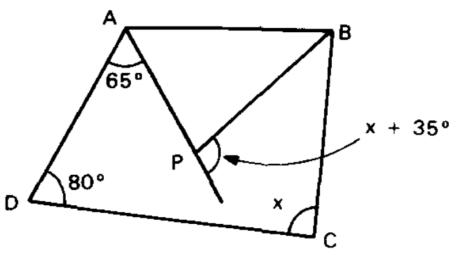


Figura 7

**Q8.** Sabendo que $\overline{AP}$ e $\overline{BP}$ são bissetrizes, calcule $x$ na figura 8:

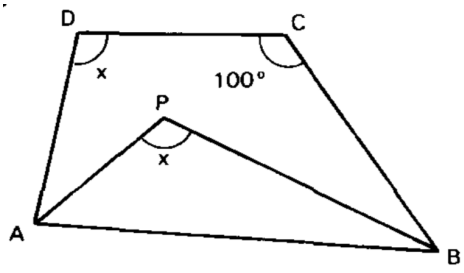


Figura 8

**Q9.** Sabendo que $\overline{AP}$ e $\overline{BP}$ são bissetrizes, calcule $\widehat{C} + \widehat{D}$ na figura 9:

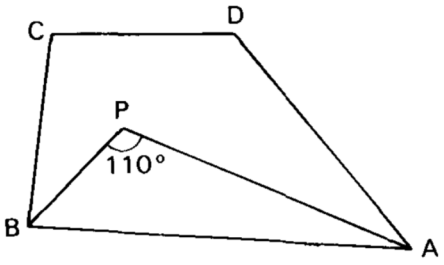


Figura 9

**Q10.** Sabendo que $\overline{AP}$ e $\overline{BP}$ são bissetrizes, calcule $\widehat{C}$, com $\widehat{C} = \widehat{D} + 10°$ na figura 10:

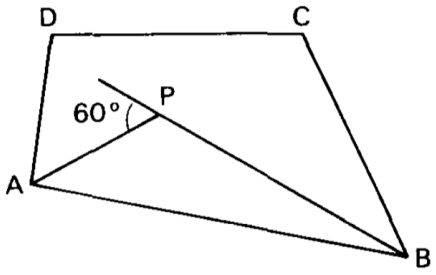


Figura 10

**Q11.** Sabendo que $\overline{AP}$, $\overline{BP}$, $\overline{CQ}$ e $\overline{DQ}$ são bissetrizes, calcule $x+y$ na figura 11:

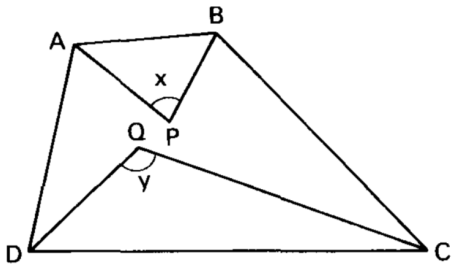


Figura 11

**Q12.** Se $ABCD$ étrapézio de bases $\overline{AB}$ e $\overline{CD}$, calcule $x$ e $y$ na figura 12:

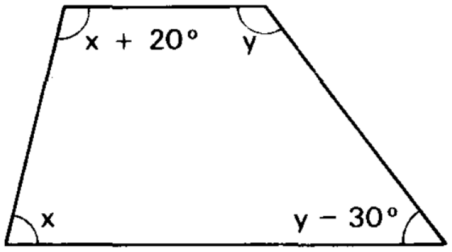


Figura 12

**Q13.** Se $ABCD$ étrapézio de bases $\overline{AB}$ e $\overline{CD}$, calcule $x$ e $y$ na figura 13:

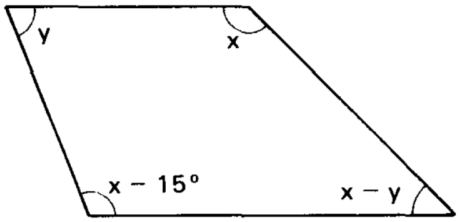


Figura 13

**Q14.** Se $ABCD$ étrapézio de bases $\overline{AB}$ e $\overline{CD}$ e $\overline{DP}$ e $\overline{CP}$ são bissetrizes, calcule $x$ e $B\hat{C}D$ na figura 14:

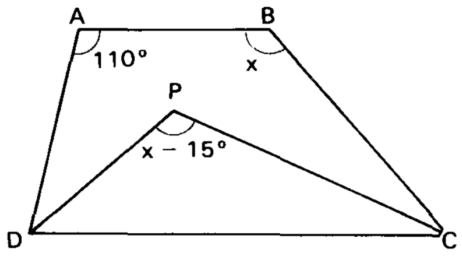


Figura 14

**Q15.** Se o trapézio $ABCD$ (figura 15) é isósceles de bases $\overline{AB}$ e $\overline{CD}$, calcule $\hat{A}$.

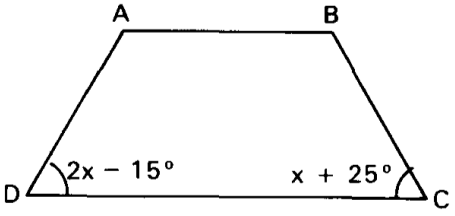


Figura 15

**Q16.** Se $ABCD$ é um paralelogramo (figura 16) e $\hat{A} = 2x$ e $\hat{C} = x + 70°$, calcule $\hat{B}$.

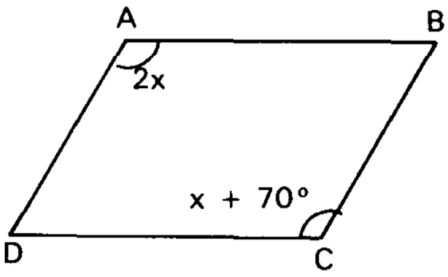


Figura 16

## Gabarito Quadriláteros I

**Q1.** 120°
**Q2.** 75°
**Q3.** 130°, 70°, 95°, 65°
**Q4.** 55°, 105°, 70°, 130°
**Q5.** 35°
**Q6.** 70°
**Q7.** 70°
**Q8.** 100°
**Q9.** 220°
**Q10.** 125°
**Q11.** 180°
**Q12.** 80° e 105°
**Q13.** 125° e 70°
**Q14.** 140° e 40°
**Q15.**
**Q16.**