

$$1) S = (n-2) \cdot 180 \quad 2) \text{Int} \angle = S/n \quad 3) S = 5940^\circ$$

$$4) S = 900$$

$$5) n = 23$$

$$6) S = 2880^\circ$$

$$7) x = 16$$

$$8) x = 11$$

$$9) 360^\circ$$

$$10) 40^\circ$$

$$11) 15$$

$$12) \text{ext} = 18^\circ$$

$$13) x = 7$$

$$14) BC = 25 \quad m\angle EDC = 125^\circ$$

$$15) x = 14 \quad (m\angle N = 51^\circ)$$

$$BD = 22 \quad m\angle EBD = 67^\circ$$

$$16) x = 10 \quad (m\angle R = 136^\circ)$$

$$FC = 17 \quad m\angle BEC = 31^\circ$$

$$17) x = 6 \quad (BD = 58)$$

$$CD = 16 \quad m\angle OBC = 58^\circ$$

$$18) \text{yes, parallelogram}$$

$$19) BC = 9 \quad m\angle ADC = 90^\circ$$

$$20) x = 3 \quad (TR = 14)$$

$$AB = 20.1 \quad m\angle BAC = 24^\circ$$

$$21) x = 8 \quad (m\angle DGE = 63^\circ)$$

$$BD = 22 \quad m\angle CDB = 24^\circ$$

$$22) m\angle JKL = 72^\circ \quad m\angle MJL = 54^\circ \quad EC = 11 \quad m\angle AEB = 132^\circ$$

$$m\angle MLK = 108^\circ \quad m\angle KNL = 90^\circ \quad 23) x = 23.9 \quad (JK = 23.9)$$

$$m\angle JMK = 36^\circ$$

$$24) x = 11 \quad (m\angle XVU = 112^\circ)$$

$$25) x = 5, x = 14 \quad (AE = 14)$$

$$26) m\angle WXY = 90^\circ$$

$$27) x = 22.6 \quad (xy = 22.6)$$

$$m\angle XZY = 45^\circ$$

$$28) ABCD \text{ is a Rhombus}$$

$$m\angle YXZ = 45^\circ$$

$$29) m = \frac{2}{3}$$

$$m\angle WRZ = 90^\circ$$

$$30) m = -\frac{3}{2}$$

$$m\angle XWY = 45^\circ$$

$$31) m\angle Q = 139^\circ \quad m\angle S = 76^\circ$$

$$32) m\angle E = 63^\circ \quad m\angle f = 63^\circ$$

$$33) x = 12 \quad (m\angle H = 94^\circ)$$

$$m\angle G = 117^\circ$$

$$34) x = 17 \quad (m\angle M = 67^\circ)$$

$$35) x = 13 \quad (m\angle G = 135^\circ)$$

$$36) x = 2 \quad (wy = 28)$$

$$37) x = 10 \quad (AB = 57)$$

$$38) x = 3 \quad (yz = 16)$$