**Tell whether the angles are only adjacent, adjacent and form a linear pair or not adjacent.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.**  | $$∠OAJ and∠PAJ$$$$∠RAP and∠OAP$$$$∠RAP and∠OAJ$$$ J$ $ P $$$ O A R$$ | **2.**  | $$∠KNS and∠SNL$$$$∠LND and∠KNS$$$$∠SND and∠KNS$$$ S L$ $$ $$$K $ $ N D$ |
|  |  |  |  |

**Name a pair of adjacent complementary angles.**

|  |  |  |  |
| --- | --- | --- | --- |
| **3.** | $ B E $$ $$$ P 78° 63° $$$ 12° 27°$$ W X M$ | **4.** | $ Z E $$$ U 20°$$$ 35° 70° D$$ 55° $$$ O 41° $$$$ N $$$$ T $$ |
|  |  |  |  |

**Find the measure of each angle.**

|  |  |  |
| --- | --- | --- |
| **5.** | $m∠RHS=x+24$ $m∠FHS=2x+36$$$m∠RHS=? m∠FHS=?$$$ F $$ S \left(2x+36\right)° $$$ $$$$\left(x+24\right)° $$$ R H $ |  |
| **6.** | $m∠LKC=3x+10$ $m∠CKD=5x+48$$$m∠LKC=? m∠CKD=?$$$$ $$$ D C $$$ $$$$ \left(5x+48\right)° $$$ \left(3x+10\right)° $$$ K L $$ |  |

**Name a pair of adjacent supplementary angles.**

|  |  |  |  |
| --- | --- | --- | --- |
| **7.** | $ U $$$ $$$$ 70° 110°$$$$ G 151° N 29° E$$$$ Z $$ | **8.** | $ Y $$$ $$$ K $$ 38° $$ L$$$ 142° A $$$$ $$$$ V $$ |
|  |  |  |  |

**Find the measure of each angle.**

|  |  |  |
| --- | --- | --- |
| **8.** | $m∠ELI=x+30$ $m∠PLI=x+60$$$m∠ELI=? m∠PLI=?$$$ I $$$ $$$$ \left(x+30\right)° \left(x+60\right)° $$$$ $$$ E L P $ |  |
| **9.** | $m∠PRV=3x+45$ $m∠DRV=x+15$$$m∠PRV=? m∠DRV=?$$$$ $$$$ V $$$$ $$$$ $$$ \left(3x+45\right)° \left(x+15\right)° $$$ P R D$$ |  |

**Find the indicated angle measures.**

|  |  |  |
| --- | --- | --- |
| **10.** | $m∠CKM=56$**Find** $ m∠FKW$**,**$ m∠WKM, and m∠CKF.$$ W M $$$ 56°$$$$ K $$$ F C$  |  |
| **11.** | $m∠BCA=x+30 m∠ECB=x+40$**Find** $ m∠BCA$ **,**$ m∠ECB, m∠DCA and m∠DCE.$$ A B $$$ \left(x+30\right)° $$$$ \left(x+40\right)°$$$$ C $$$ D E$  |  |

**WORD PROBLEMS**

|  |  |  |  |
| --- | --- | --- | --- |
| **12.**  | **Find the measure of an angle and its complement, if one angle measures**$ 38°$ **more than the other.** | **13.**  | **The measure of the supplement of an angle is** $84°$ **less than the measure of the angle. Find the measures of the angles.**  |
|  | $$ $$ |  |  |
| **14.**  | **Two angles are supplementary. The measure of one angle is** $36°$ **more than twice of measure of the other angle. Find the measures of the angles.** | **15.**  | **The measure of an angle increased by** $40°$ **is equal to the measure of its complement.** |
|  |  |  | $$ $$ |