**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Block\_\_\_\_\_\_**

**Write an equation and solve to find the value of x in each diagram.**

*All segments that appear to be tangent are!*

|  |  |  |
| --- | --- | --- |
| **1.**  85°  73°  x° | **2.**  110°  50°  x° | **3.**  96°  x° |
| **4.**  x°  280° | **5.**  x°  45°  55° | **6.**  x°  42°  48° |
| **7.**  120°  x°  50° | **8.**  136°  96°  x° | **9.**  100°  x° |
| **10.**  100°  x°  20°  140°  80°  x°  110° | **11.**  78°  x°  54° | **12.**  25°  x°  25° |
| **Round any decimal answers to the nearest tenth.** | | |
| **13.**  130°  40°  x° | **14.**  80°  90°  x°  60° | **15.**  18  x  10  x |
| **16.**  6  x  5  3 | **17.**  12  8  x | **18.**  x  5x  5  3  8  3  2  x  8  3  2  x |
| **19.**  3x  x  12 | **20.**  10  5  x x | **21.**  12  x  5  10  16  x  9  8 |
| **22.**  6  15  5  x | **23.**  4x  16  12  3x | **24.**  is a diameter  x  4  8  B  A |