



Assume that lines that appear to be tangent are tangent.
 C is the center of each circle. Find the value of x .



$$x = 180^\circ - 90^\circ - 58^\circ$$

$$x = 32^\circ$$



$$x = 360^\circ - 90^\circ - 90^\circ - 130^\circ$$

$$x = 50^\circ$$



In each diagram, $\overrightarrow{AB}$ is tangent to $\odot C$ at B . Find the value of x .



$$x^2 + 3^2 = (3 + 7)^2$$

$$x^2 + 9 = 100$$

$$x = \sqrt{91}$$

$$x \approx 9.54$$



$$12^2 + 9^2 = (x + 9)^2$$

$$225 = (x + 9)^2$$

$$\sqrt{225} = \sqrt{(x + 9)^2}$$

Answer To 12 Tangent Lines

Ivan Niven



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