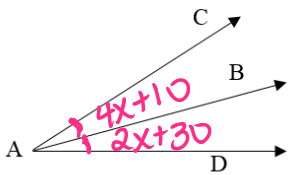


Name: *key*

Chapter 1-2 Review
Post-Assessment

1. \overline{AB} bisects $\angle CAD$. $\angle CAB = 4x + 10$

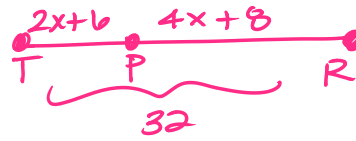
and $\angle BAD = 2x + 30$ Find x .



$$\begin{aligned} 4x + 10 &= 2x + 30 \\ 2x &= 20 \\ \boxed{x} &= 10 \end{aligned}$$

2. P is between T and R. $TP = 2x + 6$, $PR = 4x + 8$

$TR = 32$. Find x .



$$\begin{aligned} 2x + 6 + 4x + 8 &= 32 \\ 6x + 14 &= 32 \\ \underline{-14} \quad \underline{-14} & \\ 6x &= 18 \\ \boxed{x} &= 3 \end{aligned}$$

3. True or False. If False, provide a counterexample.

If $x^2 = 64$, then $x = 8$.

false
 $x = -8$

4. Write the contrapositive of the statement.

"If it is not spring break, then I am at school."

*if I am not at school,
then it is spring break.*

5) Given: $j \parallel k$

Find: the value of x

- a) 11
- b) 11.25**
- c) 14
- d) 15.25

$$\begin{aligned} 79 &= 8x - 11 \\ +11 \quad +11 & \\ \hline 90 &= 8x \\ \frac{90}{8} &= \frac{8x}{8} \\ x &= 11.25 \end{aligned}$$

