The intent of these exercises is to assess your knowledge perpendicular lines and ability to use that knowledge to solve problems.

1. Suppose two segments are perpendicular, what is implied about the angle of intersection between these two segments.
e

$$
\text { The angle would be } 90 \text {. }
$$

2. In the following illustration, segments MA and AT are perpendicular. Find the measure of angle CAT.

3. Determine whether each pair of lines is perpendicular or not. Justify

e


8 The intent of these exercises is to assess your knowledge perpendicular lines and ability to use that knowledge to solve problems.

1. Suppose two segments are perpendicular, what is implied about the angle of intersection between these two segments.

R

$$
\text { The angle is } 90^{\circ} \text { if they are perpindicular. }
$$

2. In the following illustration, segments MA and AT are perpendicular. Find the measure of angle CAT.

$$
9 \theta-32=58
$$

e


$$
x=5.3
$$

3. Determine whether each pair of lines is perpendicular or not. Justify
a.) line AB where $\mathrm{A}:(4,12), \mathrm{B}:(6,9)$
line $C D$ where $C:(5,8), C:(3,11)$


> The limes are not perpindicuiar because the angle macsure is acute which is less than $90^{\circ}$

b.) line AB defined by $\mathrm{y}=3 \mathrm{x}+7 \quad 90=3 x+7+x-12$ line $C D$ defined by $x+3 y=12$

$$
\begin{aligned}
& 90=4 x-5 \\
& +\frac{5}{95}=\frac{4 x}{4} \\
& \frac{4}{4}=x
\end{aligned}
$$

The intent of these exercises is to assess your knowledge perpendicular lines and ability 7 to use that knowledge to solve problems.

1. Suppose two segments are perpendicular, what is implied about the angle of intersection between these two segments. The care of intersection between both segments ape going to be coovespondirg. Trey will be congruent if they
2. In the following illustration, segments MA and AT are perpendicular. Find the

3. Determine whether each pair of lines is perpendicular or not. Justify
a.) line AB where $\mathrm{A}:(4,12), \mathrm{B}:(6,9)$
line CD where. $\mathrm{C}:(5,8), \mathrm{C}:(3,11)$ No. Tree t one not

b.) line $A B$ defined by $y=3 x+7$ line $C D$ defined by $x+3 y=12$

$$
\begin{aligned}
& x+3(3 x+7)=12 \\
& x+9 x+
\end{aligned}
$$

