Do-now: Determine the value of x in each of the diagrams below.
 $x=50$

Inscribed $\psi s=$ $\frac{1}{2}$ intercepted arc


$$
x=100
$$

$\Varangle$ for med by
Chord $\$$ tangent =
$\frac{1}{2}$ interected are



$$
\begin{aligned}
& \triangle A \overline{B C} \sim \triangle A \overline{D E} \\
& \frac{A B}{A D}=\frac{B C}{D E} \quad \begin{array}{l}
\text { similar } \Delta s \\
\text { have proportional } \\
\text { side lengths }
\end{array} \\
& A B \cdot D E=A D \cdot B C \quad \text { cross multiply }
\end{aligned}
$$

