Section 12.3: Angle Problems

1. In the following figure, \( m \parallel n \) and \( r \perp s \). Given the angle measures indicated on the figure, find the measure of each lettered angle.

\[ \begin{align*}
(a) \ m(\angle a) &= \\
(b) \ m(\angle b) &= \\
(c) \ m(\angle c) &= \\
(d) \ m(\angle d) &= \\
(e) \ m(\angle e) &= \\
(f) \ m(\angle f) &= 
\end{align*} \]
2. In the following figure, $m \parallel n$. Given the angle measures indicated on the figure, find the measure of each lettered angle.

(a) $m(\angle a) =$

(b) $m(\angle b) =$

(c) $m(\angle c) =$

(d) $m(\angle d) =$

(e) $m(\angle e) =$

(f) $m(\angle f) =$
3. Find the measure of each lettered angle.

(a) \( m(\angle a) = \)

(b) \( m(\angle b) = \)

(c) \( m(\angle c) = \)

(d) \( m(\angle d) = \)

(e) \( m(\angle e) = \)

(f) \( m(\angle f) = \)

(g) \( m(\angle g) = \)

(h) \( m(\angle h) = \)

(i) \( m(\angle j) = \)