

WARM UP: FACTORING

1.  $x^2 - 6x + 8$

$$\begin{array}{l}
 (x^2 - 4x)(-2x + 8) \quad \begin{array}{l} 8 \\ -6 \\ -2 \end{array} \\
 \cancel{4} \quad \cancel{-2} \\
 x(x-4) - 2(x-4) \\
 (x-4)(x-2)
 \end{array}$$

2.  $4n^2 - 9n - 9$

$$\begin{array}{l}
 (4n^2 - 12n)(+3n - 9) \quad \begin{array}{l} 36 \\ -12 \\ -9 \end{array} \\
 \cancel{-12} \quad \cancel{3} \\
 4n(n-3) + 3(n-3) \\
 (4n+3)(n-3)
 \end{array}$$