2-6 Practice

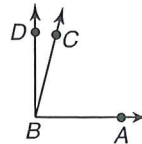### *Algebraic Proof*

PROOF Write a two-column proof.

1. If $m\angle ABC + m\angle CBD = 90$, $m\angle ABC = 3x - 5$,
   and $m\angle CBD = \dfrac{x + 1}{2}$, then $x = 27$.

2. **FINANCE** The formula for simple interest is $I = prt$, where I is interest, p is principal, r is rate, and t is time. Solve the formula for r and justify each step.