Review 8-2

1. Fill in the blanks in the following pseudocode for M-CUT-ROD.

M-CUT-ROD (p, n)
    let $r[0 .. n]$ be a new array
    for $i = 0$ **to** n
        $r[i] = -\infty$
    return M-CUT-ROD-A (p, n, r)

M-CUT-ROD-A (p, n, r)
    if $r[n] \geq 0$
        return ☐
    if $n == 0$
        ☐
    else $q = -\infty$
        for $i = 1$ **to** n
            ☐
    ☐
    return q

2. Fill in the blanks in the following pseudocode for BOTTOM-UP-CUT-ROD.

BOTTOM-UP-CUT-ROD (p, n)
    let $r[0 .. n]$ be a new array
    $r[0] = 0$
    for $j = 1$ **to** n
        $q = -\infty$
        for $i = 1$ **to** j
            $q = $ ☐
        ☐
    return $r[n]$