① $v_n = 5 \times 2^n$

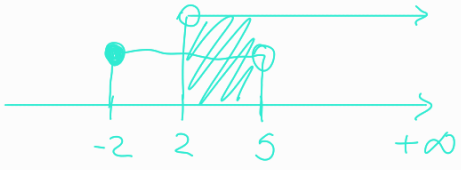
$v_n = 160 \Leftrightarrow 5 \times 2^n = 160 \Leftrightarrow 2^n = \frac{160}{5} \Leftrightarrow 2^n = 32 \Leftrightarrow n = \log_2(32) \Leftrightarrow$

$\Leftrightarrow n = 5$

② Ver print no PC. // R: $[-4,6[\ / \ ]4,6[\ / \ -2 \ / \ 2 \ e \ 5$

③ $A = \{x \in \mathbb{R} : x > 2\}$ $B = \{x \in \mathbb{R} : -2 \leq x < 5\}$

$A \cap B =]2, +\infty[\cap [-2, 5[=]2, 5[$



④ $u_n = 7 \Leftrightarrow \frac{3n-2}{4} = 7 \Leftrightarrow 3n - 2 = 7 \times 4 \Leftrightarrow 3n = 28 + 2 \Leftrightarrow$

$\Leftrightarrow n = \frac{30}{3} \Leftrightarrow n = 10 \in \mathbb{N}$, ✓