

Reconnaître si un entier est premier

TI 82-83	TI 89-92	Graph Casio
<pre>Prompt A If fPart (A/2) = 0 Then Disp " A NON PREMIER " Stop End Int (\sqrt{A}) \rightarrow N For (I, 3, N, 2) If fPart (A/I) = 0 Then Disp "A NON PREMIER " Stop End End Disp " A PREMIER "</pre>	<pre>premier() Prgm Local n Prompt a If mod (a, 2) = 0 Then Disp " a non premier " Stop EndIf int (\sqrt{a}) \rightarrow n For i, 3, n, 2 If mod (a, i) = 0 Then Disp " a non premier " Stop EndIf EndFor Disp " a premier "</pre>	<pre>? \rightarrow A If Frac(A/2) = 0 Then " A NON PREMIER " Stop IfEnd Intg (\sqrt{A}) \rightarrow N For 3 \rightarrow I To N Step 2 If Frac (A/I) = 0 Then " A NON PREMIER " Stop IfEnd Next " A PREMIER "</pre>

Décomposition en facteurs premiers

TI 82-83	TI 89-92	Graph Casio
<pre>Prompt A While fPart (A/2) = 0 Disp " 2 " Pause A/2 \rightarrow A End Int (\sqrt{A}) \rightarrow N For (I, 3, N, 2) While fPart (A/I) = 0 Disp I Pause A/I \rightarrow A End End If A \neq 1 Then Disp A End</pre>	<pre>decomp() Prgm Local b, i, n Prompt a While mod (a, 2) = 0 Disp " 2 " Pause a/2 \rightarrow a EndWhile int (\sqrt{a}) \rightarrow n For i, 3, n, 2 While mod (a, i) = 0 Disp i Pause a/i \rightarrow a EndWhile EndFor If a \neq 1 Then Disp a EndIf EndPrgm</pre>	<pre>? \rightarrow A While Frac (A/2) = 0 2 \blacktriangle A/2 \rightarrow A WhileEnd Intg (\sqrt{A}) \rightarrow N For 3 \rightarrow I To N Step 2 While Frac (A/I) = 0 I \blacktriangle A/I \rightarrow A WhileEnd Next If A \neq 1 Then A IfEnd</pre>