





% Xeno Disks
DrawRect(0,-1,2,2,'k') % Draw 20 Xeno disks
d= 1;
<pre>x= 0; % Left tangent point</pre>
for k= 1:20
% Draw kth disk
% Update x, d for next disk
end































Resulting error

... after 100 hours

$.00000095 \times (100 \times 60 \times 60)$

0.34 second

At a velocity of 1700 m/s, missed target by more than 500 meters!

Lecture 12



point arithmetic—due to limitation in "hardware." Computer memory is finite.

Lecture 12

- What is | + |0⁻¹⁶ ?
 - I.000000000000001 in real arithmetic
 - I in floating point arithmetic (IEEE)
- Read Sec 4.3





See full is element-by-element arithmetic operations on arrays	ist of ops in §4.1
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A dot (.) is necessary in front of these math operators	
Lecture 12	67





