

**Exercise 2.** Remember the cosine rule? ( $c^2 = a^2 + b^2 - 2ab \cos(\theta)$ ). Find the length of the hypotenuse of a triangle with angle  $30^\circ$ , and sides with lengths 10 and 20. The MATLAB trigonometric functions (`cos`, `sin`, `tan`) use radians, so you will need to convert using  $\pi$ .

MIT OpenCourseWare  
<http://ocw.mit.edu>

18.S997 Introduction To MATLAB Programming  
Fall 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.