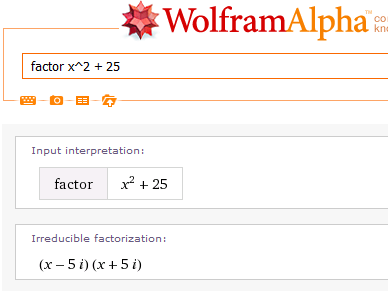
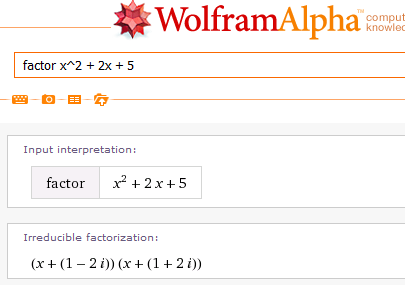
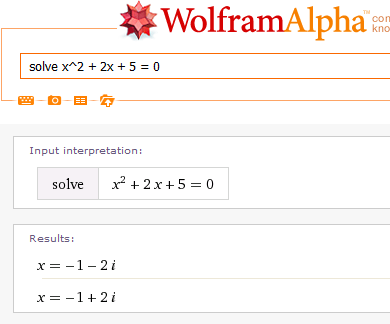
**Factoring Quadratic Expressions and Solving Quadratic Equations Using WolframAlpha**

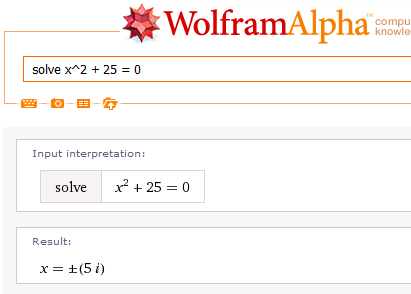
**Solutions:**

1.  2. 



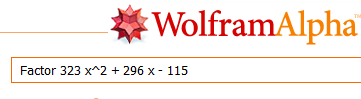
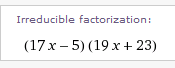




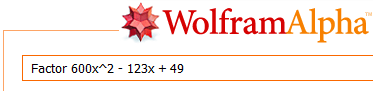
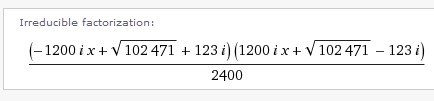
**Note to instructors:** WolframAlpha will "solve" without the " = 0 ."

It will assume it should be there and fill in the "= 0" for you.

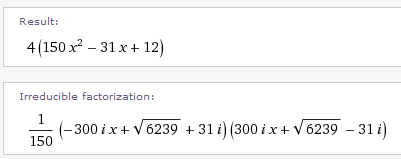
3.  = 

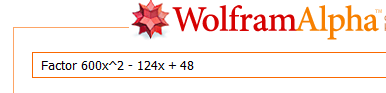


4.  not factorable

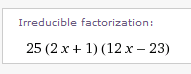
 

5.  = 

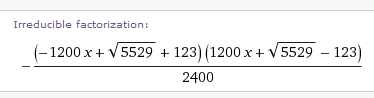




6.  = 



7.  not factorable



8. Which of the equations in (4) – (7) will have solutions over the real numbers? 6 and 7

Does *not factorable* mean *no real solution*?

No. An expression may not factor with *rational* numbers, yet still give real solutions.