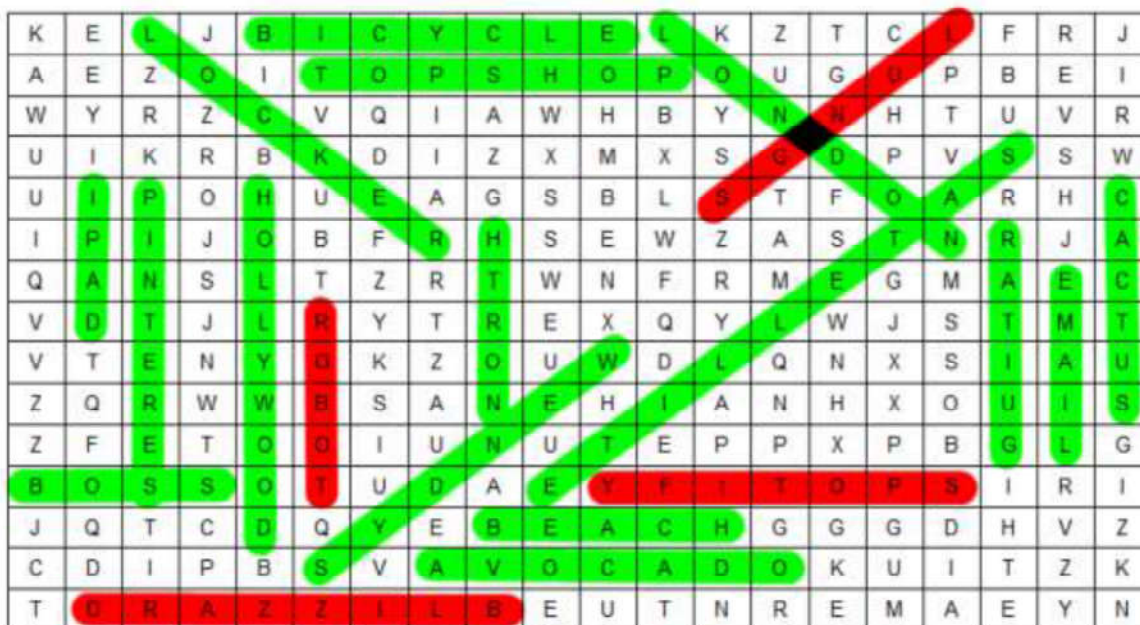


## Algebra 2 ~ 3.1 PUZZLE (tpt) Factoring Quadratic Equations

Goals: Factor and solve quadratic equations

### Solution

Green words are correct solutions to the questions.  
Red words were hidden but did not need to be found.



Q1)  $x^2 + 8x + 15 = (x + 3)(x + 5)$  *Topshop*

Q9)  $x^2 - 64 = (x + 8)(x - 8)$  *Wendys*

Q2)  $2x^2 + 5x + 3 = (2x + 3)(x + 1)$  *London*

Q10)  $4x^2 + 12x + 9 = (2x + 3)^2$  *North*

Q3)  $x^2 - 3x - 10 = (x - 5)(x + 2)$  *Satellite*

Q11)  $2x^2 + 13x + 20 = (2x + 5)(x + 4)$  *Boss*

Q4)  $x^2 - 5x + 6 = (x - 2)(x - 3)$  *Pinterest*

Q12)  $x^2 + 2x + 1 = (x + 1)^2$  *Email*

Q5)  $3x^2 - 7x + 2 = (3x - 1)(x - 2)$  *Bicycle*

Q13)  $4x^2 - x - 5 = (4x - 5)(x + 1)$  *Beach*

Q6)  $4x^2 + 8x - 5 = (2x - 1)(2x + 5)$  *Cactus*

Q14)  $x^2 - 5x + 4 = (x - 1)(x - 4)$  *Avocado*

Q7)  $x^2 + 9x + 14 = (x + 2)(x + 7)$  *Locker*

Q15)  $9x^2 - 49 = (3x + 7)(3x - 7)$  *Guitar*

Q8)  $5x^2 - 29x - 6 = (5x + 1)(x - 6)$  *Hollywood*

Q16)  $x^2 + x - 42 = (x - 6)(x + 7)$  *Ipad*