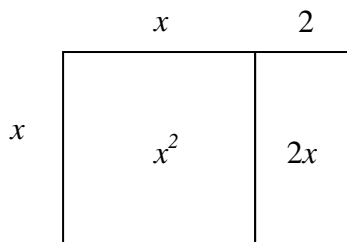
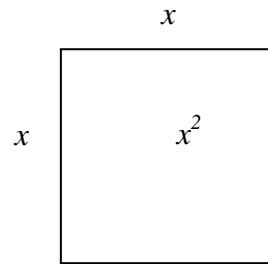
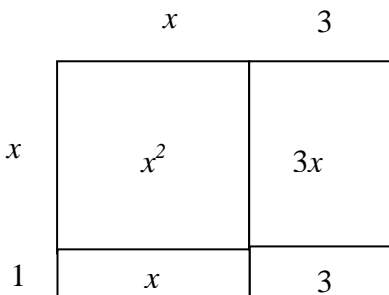


INTRODUCTION TO QUADRATICS

The AREA of the square is $x \times x = x^2$

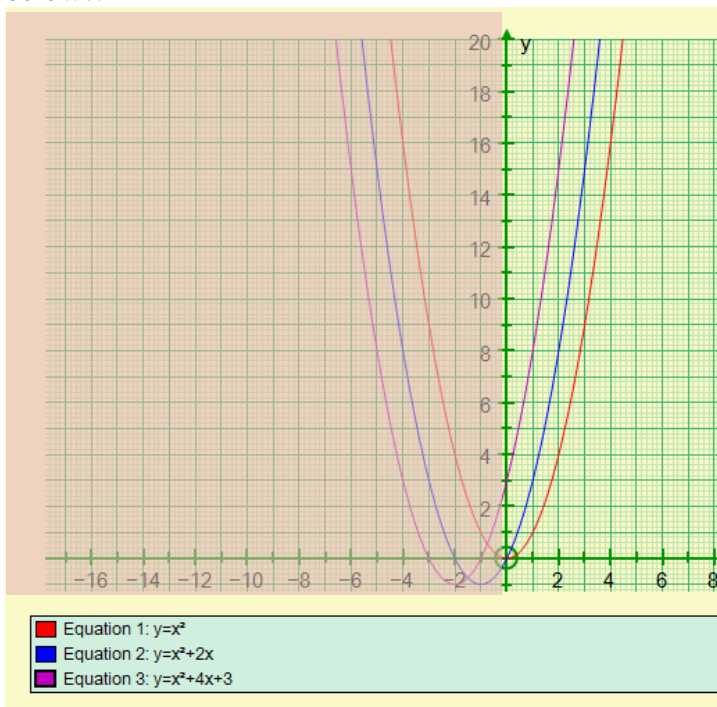


$$x(x+2) = x \times x + 2 \times x = x^2 + 2x$$



$$(x+3)(x+1) = x^2 + 3x + x + 3 = x^2 + 4x + 3$$

The areas of the squares and rectangles above have some connection with the three graphs drawn below!!



Choose $x=0$ and positive values of x and substitute them into each of the equations and each of the diagrams in turn. **Write down** what you find out.