

# MULTIPLYING BINOMIALS - FOIL $(x+3)(x-2)$

## 1. Expand and Simplify.

a)  $(x - 7)(x - 4)$

e)  $(2x + 1)(3x + 7)$

b)  $(x - 8)(x + 8)$

f)  $(3x - 4)(3x + 5)$

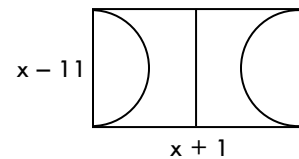
c)  $(x + 9)(x - 3)$

g)  $(2x - 3)^2$

d)  $(-3 + 2x)(-10 + x)$

h)  $(4 + 2a)(3 + 2a)$

## 2. Using the picture of the following basketball court,

a) Write a **trinomial expression** for the area of the courtb) Find the area of the basketball court if  $x = 25$  m

**3. Simplify each expression.**

**a)  $(r + 6)(r - 3)$**

**b)  $(p + 7)(9p - 5)$**

**c)  $(3s + 8)^2$**

**d)  $(7n + 5)(n + 4)$**

**e)  $(2r - 6)(r + 9)$**

**f)  $(5n + 6)(8n - 7)$**

**g)  $(5a + 6)(8a + 7)$**

**h)  $(z - 3)(z + 3)$**

**i)  $(r - 2)(r + 3)$**

**j)  $(s + 9)(6s - 8)$**