(1) a) $(x+1)^2 = (x+1)(x+1) = x^2+x+x+1 = x^2+2x+1$

b) $(x-3)^2 = (x-3)(x-3) = x^2 - 6x + 9$

c) $(x-\frac{3}{2})^2 = (x-\frac{3}{2})(x-\frac{3}{2}) = x^2-3x+\frac{9}{4}$

(2) a) $x^2+2x+1 = (x+1)^2$

b) $x^2+3x+\frac{9}{4} = (x+\frac{3}{2})^2$

c) $x^2+\frac{1}{2}x+\frac{1}{16} = (x+\frac{1}{4})^2$

(3) a) $x^2+8x+16 = (x+4)^2$

b) $x^2+\frac{2}{3}x+\frac{1}{9} = (x+\frac{1}{3})^2$

c) $x^2-4x+4 = (x-2)^2$

(4) a) $x^2+4x+4 = (x+2)^2$

b) $x^2+x+\frac{1}{4} = (x+\frac{1}{2})^2$

c) $x^2+\frac{1}{2}x+\frac{1}{16} = (x+\frac{1}{4})^2$