Foil Product Problems

Multiply out each of the following and simplify!

(1) $(x + 1)\,(x + 2)$ (2) $(x + 3)\,(x + 4)$ (3) $(x\ \text{-}\ 2)\,(x + 4)$

(4) $(y\ \text{-}\ 3)\,(y\ \text{-}\ 2)$ (5) $(x + 5)\,(x + 2)$ (6) $(a + 7)\,(a + 1)$

(7) $(x\ \text{-}\ 2)\,(x\ \text{-}\ 5)$ (8) $(x\ \text{-}\ 9)\,(x\ \text{-}\ 11)$ (9) $(x\ \text{-}\ 2)^2$

(10) $(2\,s\ \text{-}\ 3)^2$ (11) $(2\,x + 1)\,(x\ \text{-}\ 2)$ (12) $(x\ \text{-}\ 8)\,(x + 8)$

(13) $(2\,y + 1)\,(y\ \text{-}\ 4)$ (14) $(3\,z + 2)\,(3\,z\ \text{-}\ 2)$ (15) $(2\,b\ \text{-}\ 1)^2$

(16) $(5\,x\ \text{-}\ 4)\,(4\,x + 1)$ (17) $(7\,z\ \text{-}\ 7)\,(z + 1)$ (18) $(x\ \text{-}\ 1)^2$

(19) $(6\,a + 2)\,(5\,a\ \text{-}\ 4)$ (20) $(3\,a + 3)\,(a + 1)$ (21) $(2\,a + b)\,(2\,a\ \text{-}\ b)$