

5 - 4 Day 2

Trinomials

Ex9) $x^2 + 7x + 6$

FOIL $\begin{matrix} 6,1 \\ 3,2 \end{matrix}$

$$(x+6)(x+1)$$

$+6x$

Ex10) $x^2 + 12x + 36$

FOIL $\begin{matrix} 1,36 \\ 2,18 \\ 3,12 \\ 4,9 \\ 6,6 \end{matrix}$

$$(x+6)(x+6)$$

Ex11) $x^2 - 6x - 27$

FOIL $\begin{matrix} 1,27 \\ 3,9 \end{matrix}$

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

$+3x$

$-9x$

Review

FOIL

$$(x+2)(x+7)$$

$+14$

FOIL

$$x^2 + 7x + 2x + 14$$

$$x^2 + 9x + 14$$

F O I L
Ex12) $2a^2 + 3a + 1$

$$\boxed{(2a + 1)(a + 1)}$$

$\begin{array}{c} +1a \\ +2a \end{array}$

Ex13) $3n^2 + 21n - 24$

$3(n^2 + 7n - 8)$ $\begin{array}{l} 1, 8 \\ 4, 2 \end{array}$

$$\boxed{3(n - 1)(n + 8)}$$

F O I L $\begin{array}{l} 1, 4 \\ 2, 3 \end{array}$

Ex14) $6c^2 + 13c + 6$

~~$(2c + 2)(3c + 3)$~~

$\begin{array}{c} 6c \\ 6c \end{array}$

$$\boxed{(2c + 3)(3c + 2)}$$

$\begin{array}{c} 9c \\ 4c \end{array}$

Homework

23. $20x^2 + 11x - 3$

$$\boxed{(4x + 3)(5x - 1)}$$

$\begin{array}{c} +15x \\ -4x \end{array}$

28. $p^2 + 9pg + 8g^2$

$$(p + 8g)(p + g)$$

24. $8w^2 - 14w + 3$

$$\boxed{(2w - 3)(4w - 1)}$$

55. $18x^5 + 15x^4 - 75x^3$

$$3x^3(6x^2 + 5x - 25)$$

$$\boxed{3x^3(3x - 5)(2x + 5)}$$