

$$3x^2 - 5x - 12$$

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

$$\begin{array}{r} 9x - 4x \\ 5x \\ -9x + 4x \\ -5x \end{array}$$

-12

$$\begin{array}{r} \cancel{6} \quad \cancel{-2} \\ -2 \quad 6 \\ \hline -6 \quad 2 \\ -4 \quad 3 \\ \hline 3 \quad -4 \\ -3 \quad 4 \\ \hline -1 \quad 12 \\ \hline 1 \quad -12 \end{array}$$

$$7x^2 + 30x + 8$$

$$(7x + 2)(x + 4)$$

$28x + 2x$   
 $30x$

$$\begin{array}{r} 8 \\ \hline 2, 4 \\ 1, 8 \\ 4, 2 \\ 8, 1 \end{array}$$

$$2x^2 + 17x + 15$$

$$(2x + 15)(x + 1)$$

$2x + 15x = 17x$

15

3, 5

5, 3

15, 1

1, 15

$$4x^2 - 16x + 15$$

$$\begin{matrix} 2 & 2 \\ 4 & 1 \end{matrix}$$

$$(4x - 3)(1x - 5)$$

$$-20x - 3x$$

$$(2x - 3)(2x - 5)$$

$$-10x - 6x = 16$$

$$\boxed{15}$$

$$-3, -5$$

$$-5, -3$$

$$-1, -15$$

$$-15, -1$$