

FACTOR:

1. $x^2 + 10x + 24$

$$\begin{array}{r} \times \\ 6 \quad 24 \\ \times \\ 10 \quad 4 \\ + \end{array}$$

$$(x+6)(x+4)$$

$$x^2 + 4x + 6x + 24$$

$$x^2 + 10x + 24$$

2. $y^2 - 11y + 18$

$$\begin{array}{r} \times \\ 9 \quad 18 \\ \times \\ -11 \quad -2 \\ + \end{array}$$

$$(y-9)(y-2)$$

FACTOR:

3. $x^2 - 6x - 40$

$$\begin{array}{r} \times \\ -10 \quad -40 \\ \times \\ -6 \quad +4 \\ + \end{array}$$

$$(x-10)(x+4)$$

4. $m^2 + 5m - 6$

$$\begin{array}{r} \times \\ +6 \quad -6 \\ \times \\ +5 \quad -1 \\ + \end{array}$$

$$(m+6)(m-1)$$

FACTOR:

5. $p^2 + 4p + 45$

unfactorable

$$\begin{array}{r} \times \\ 45 \\ \times \\ 4 \\ + \end{array}$$

FACTOR:

6. $x^2 - 8xy + 15y^2$

$$\begin{array}{r} \times \\ -5 \quad 15 \\ \times \\ -8 \quad -3 \\ + \end{array}$$

$$(x-5y)(x-3y)$$

7. $j^2 + jk - 72k^2$

$$\begin{array}{r} \times \\ +9 \quad -72 \\ \times \\ +1 \quad -8 \\ + \end{array}$$

$$(j+9k)(j-8k)$$