

Factor completely.

1.  $7x^2 + 27x - 4$

$$\begin{array}{r} 7x - 1 \\ \times \\ \hline 7x^2 - 1x \\ +28x - 4 \\ \hline \end{array} \quad -28$$

$$(7x - 1)(x + 4)$$

2.  $5x^2 + 13x + 6$

$$\begin{array}{r} x - 2 \\ \times \\ \hline 5x^2 - 10x \\ +3x - 6 \\ \hline \end{array} \quad 36$$

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

3.  $3x^2 - 7x - 10$

$$\begin{array}{r} x + 1 \\ \times \\ \hline 3x^2 + 3x \\ -10x - 10 \\ \hline \end{array} \quad -30$$

$$(x + 1)(3x - 10)$$

4.  $7x^2 + 10x + 3$

$$\begin{array}{r} 7x + 3 \\ \times \\ \hline 7x^2 + 3x \\ +7x + 3 \\ \hline \end{array} \quad 21$$

$$(7x + 3)(x + 1)$$

5.  $5x^2 - 7x + 2$

$$\begin{array}{r} 5x - 2 \\ \times \\ \hline 5x^2 - 2x \\ -5x + 2 \\ \hline \end{array} \quad 10$$

$$(5x - 2)(x - 1)$$

6.  $7x^2 - 27x - 4$

$$\begin{array}{r} 7x + 1 \\ \times \\ \hline 7x^2 + 1x \\ -28x - 4 \\ \hline \end{array} \quad -28$$

$$(7x + 1)(x - 4)$$