

6.8 Factoring Complex Trinomials

$2x^2 + x - 3$

$1x^2 + 7x + 12$

| | | | | | |
|---|-------------|---------------|----------------|---|--|
| $\begin{array}{r} 3 \\ \hline -2 \\ +1 \end{array}$ | $\times -6$ | $\frac{3}{2}$ | $-\frac{2}{2}$ | } | Try to simplify the fractions |
| | | $\frac{3}{2}$ | $-\frac{1}{1}$ | | |
| | | $\frac{3}{2}$ | $-\frac{1}{1}$ | | |

$(2x + 3)$ $(x - 1)$

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$7a + 15a^2 - 2$

$15a^2 + 7a - 2$

| | | | |
|--|--------------|-----------------|-----------------|
| $\begin{array}{r} 10 \\ \hline -3 \\ +7 \end{array}$ | $\times -30$ | $\frac{10}{15}$ | $-\frac{3}{15}$ |
| | | $\frac{3}{2}$ | $-\frac{1}{5}$ |

$(3a + 2)$ $(5a - 1)$

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$3y^4 + 13y^2 - 10$ $13y^2 + 3y^4 - 10$

| |
|----|
| 15 |
| -2 |

 $x - 30$

| | |
|----|----|
| 15 | -2 |
| 3 | 3 |

$(y^2 + 5)$ $(3y^2 - 2)$

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$12x^2 - 15x - 18$

$3(4x^2 - 5x - 6)$

| |
|----|
| 8 |
| +3 |

 $x - 24$

| |
|---|
| 8 |
| 4 |

(-2) (3)

$3(x - 2)(4x + 3)$

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$$2x^2 - 16xy + 32y^2$$

$$2(x^2 - \underline{8xy} + 16y^2)$$

$$\begin{array}{l} \boxed{\begin{array}{r} -4 \\ -4 \end{array}} \times 16 \\ -8 \end{array} \quad \begin{array}{c} \textcircled{\frac{-4}{1}} \\ \textcircled{\frac{-4}{1}} \end{array} \quad \begin{array}{c} \textcircled{\frac{-4}{1}} \\ \textcircled{\frac{-4}{1}} \end{array}$$

$$\begin{array}{l} 2(x-4y) \quad (x-4y) \\ \hline 2(x-4y)^2 \end{array}$$

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Assignment:**Pg. 371****4, 7, 16**

Quiz

Monday

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