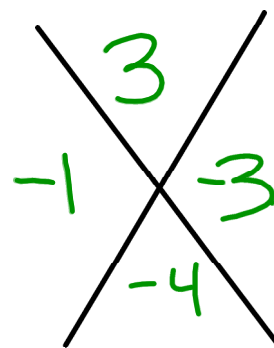


## 1.3a Factoring Trinomials (garbage method)

1.  $3m^2 - 4m + 1$

$(3m - 1)(\frac{3m}{3} - \frac{3}{3})$

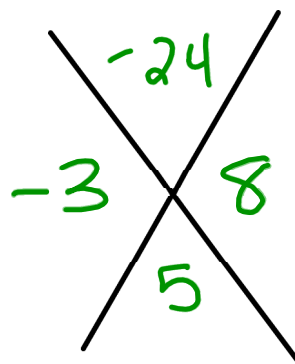
$(3m - 1)(m - 1)$



2.  $2b^2 + 5b - 12$

$(2b - 3) \left( \frac{2b}{2} + \frac{8}{2} \right)$

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



1, 24 (3, 8)  
2, 12

3.  $3x^2 + 2x - 21$

$(3x - 7)(\frac{3x}{3} + \frac{9}{3})$

$(3x - 7)(x + 3)$

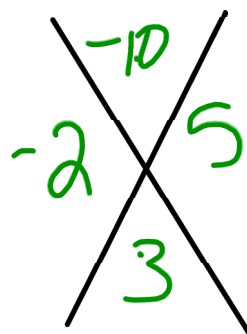
~~$\begin{array}{cc} -63 & \\ -7 & 9 \\ & 2 \end{array}$~~

$\begin{array}{l} 1, 63 \\ 3, 21 \\ \textcircled{7, 9} \end{array}$

4.  $2k^2 + 3k - 5$

$(\frac{2k}{2} - \frac{2}{2})(2k + 5)$

$(k - 1)(2k + 5)$

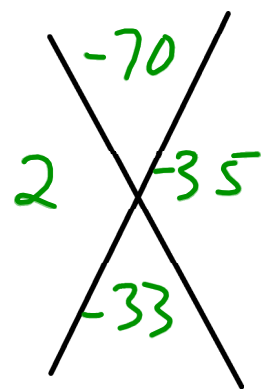


1, 10  
2, 5

5.  $7x^2 - 33x - 10$

$(7x + 2)(7x - 35)$

$(7x + 2)(x - 5)$



$\begin{array}{r} -70 \\ \hline 2 \cdot 35 \end{array}$

$$\underline{6x^2 - 11x + 4}$$

9.  $18x^3 - 33x^2 + 12x$

$$3x \left( \frac{6x}{3} - \frac{3}{3} \right) \left( \frac{6x}{2} - \frac{8}{2} \right)$$

$$\underline{3x(2x-1)(3x-4)} - 3$$

~~$$\begin{array}{r} 24 \\ -8 \\ \hline -11 \end{array}$$~~

$$\begin{array}{r} 24 \\ \wedge \\ \hline 3 \cdot 8 \end{array}$$

$$13. \frac{4x^2}{4x} + \frac{16x}{4x}$$

$$4x(x + 4)$$



15.  $m^2 + \underline{3m} - 4$

$(m - 1)(m + 4)$

