

Pulling out a common factor:

$$\textcircled{1} \quad \frac{2x^2}{2} + \frac{2x-12}{2}$$

$$= 2(x^2 + x - 6)$$

$$= \boxed{2(x-2)(x+3)} \text{ or}$$

$$= \boxed{(2x-4)(x+3)}$$

factor.

a.c = -6	b = 1
-1 · 6	5
-2 · 3	1

$$\textcircled{2} \quad \frac{9x^2}{3} - \frac{15x}{3} - \frac{6}{3}$$

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

	(x	-2)
3x	3x ²	-6x
+1	1x	-2

$$= \boxed{3(x-2)(3x+1)}$$

factor.

a.c = -6	b = -5
-1 · 6	
-2 · 3	
-3 · 2	
-6 · 1	-6 + 1 = -5