

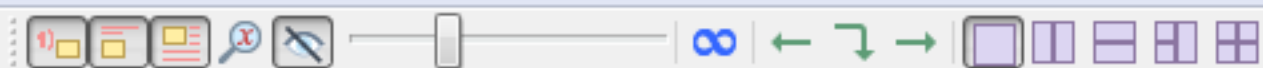
Factor the common factor out of each expression.

① Find GCF

Greatest common
Factor

$$1) \frac{30}{6} - \frac{6x}{6} - \frac{18x^2}{6}$$

$$= 6(5 - 1x - 3x^2)$$



Factor the common factor out of each expression.

$$2) \frac{-3n^4}{1n^1} + \frac{3n^3}{1n^1} + \frac{1n}{1n^1}$$

GCF

$$\frac{n^4}{n^1} = 3$$

$$= n(-3n^3 + 3n^2 + 1)$$

descending = Big to
Smallest

When we
divide by
exponents
you

SUBTRACT

Factor each completely.

$$5) \quad n^2 - 5n + 6$$

$$(n-2)(n-3)$$

$$+ \times + = +$$

$$- \times - = +$$

$$+ \times - = -$$

$$- \times + = -$$

$$\otimes \quad 6$$

$$\oplus \quad -5$$

$$\begin{matrix} + & + & = & + \\ - & - & = & + \end{matrix}$$

$$-, -$$

$$\begin{array}{c} 6 \\ -2, -3 \end{array}$$

Factor each completely.

Product $\otimes$ -14
 sum $\oplus$ -5

$$(p+2)(p-7)$$

check using FOIL

$$(p+2)(p-7)$$

$$= p^2 - 7p + 2p - 14$$

$$= p^2 - 5p - 14$$

$$\begin{array}{r} +1 \\ \hline +14 \\ \hline +2 \\ \hline +1 \\ \hline \end{array} \quad \begin{array}{r} -14 \\ \hline -1 \\ \hline -7 \\ \hline -2 \\ \hline \end{array}$$

$$= -3$$

$$= -3$$

$$-5$$

Homework:

Factoring #1 - #7, 8, 9, 10, 11, 12, 14, 17, 18, 19

Bonus: #13, 15, 16, 20, 21, 22