

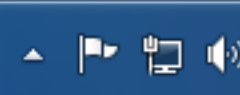
Factor the common factor out of each expression.

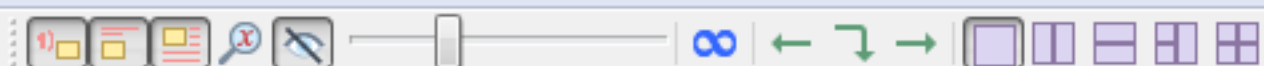
$$1) \frac{30}{6} - \frac{6x}{6} - \frac{18x^2}{6} \quad \begin{array}{l} 3 \\ 6 \end{array}$$

GCF
Greatest Common Factor

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

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





Factor the common factor out of each expression.

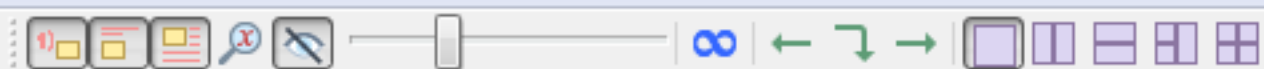
$$2) \frac{-3n^4}{1n^1} + \frac{3n^3}{1n^1} + \frac{1n^1}{1n^1}$$

* divide the bases
subtract exponents
①

↓

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



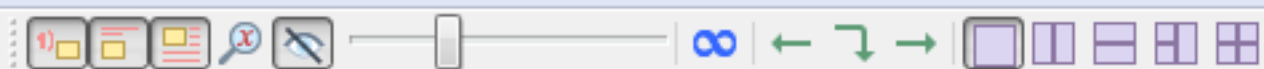


Factor the common factor out of each expression.

$$3) \frac{-12m^4}{5m} + \frac{12m^3}{3m} - \frac{9m}{5m}$$

$$3m(-4m^3 + 4m^2 - 3) \checkmark$$



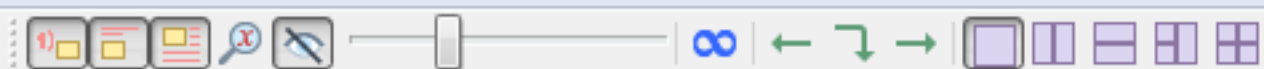


Factor the common factor out of each expression.

$$4) \frac{20r^2 - 28r + 28}{4 \quad 4 \quad 4}$$

$$4(5r^2 - 7r + 7)$$





Factor each completely.

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

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

$n^2 - 2n - 3n + 6$

$n^2 - 5n + 6$

~~$+6$~~

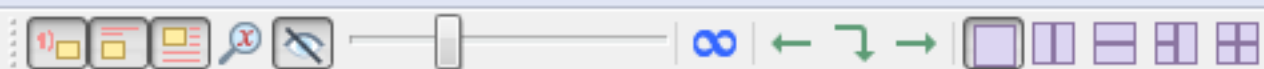
$+ -5$

~~$+3, +2$~~

~~$+1, +6$~~

~~$-1, -6$~~

$-3, -2$



Factor each completely.

6) $p^2 - 5p - 14$

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

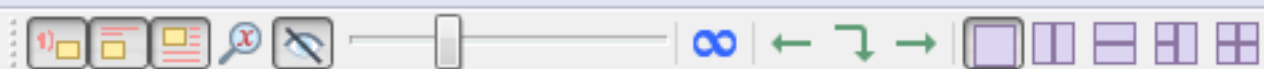
$$p^2 + 2p - 7p - 14$$

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

$$\begin{array}{c} x - 14 \\ + - 5 \end{array}$$

-1	+14
-14	+1
-2	+7
-7	+2

-x	+	-
+	x	-
-	x	-
+	x	+



Factor each completely.

8) $n^2 + 7n - 8$

$$(n - 1)(n + 8)$$

Homework

Finish up to #12

$$\begin{array}{r} x - 8 \\ + + 7 \end{array}$$

- 1	+ 8
- 8	+ 1
- 2	+ 4
- 4	+ 2

