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POLYATOMIC IONS

Ions with -1 charge

perbromate	BrO_4^{-1}
bromate	BrO_3^{-1}
bromite	BrO_2^{-1}
hypobromite	BrO^{-1}
perchlorate	ClO_4^{-1}
chlorate	ClO_3^{-1}
chlorite	ClO_2^{-1}
hypochlorite	ClO^{-1}
periodate	IO_4^{-1}
iodate	IO_3^{-1}
iodite	IO_2^{-1}
hypoiodite	IO^{-1}

nitrate	NO_3^{-1}
nitrite	NO_2^{-1}
hydroxide	OH^{-1}
cyanide	CN^{-1}
thiocyanate	SCN^{-1}
acetate	$\text{C}_2\text{H}_3\text{O}_2^{-1}$
permanganate	MnO_4^{-1}
bicarbonate	HCO_3^{-1}

sulfite	SO_3^{-2}
chromate	CrO_4^{-2}
dichromate	$\text{Cr}_2\text{O}_7^{-2}$
oxalate	$\text{C}_2\text{O}_4^{-2}$
peroxide	O_2^{-2}

Ions with a -2 Charge

carbonate	CO_3^{-2}
phthalate	$\text{C}_8\text{H}_4\text{O}_4^{-2}$
sulfate	SO_4^{-2}

Ions with a -3 Charge

phosphate	PO_4^{-3}
phosphite	PO_3^{-3}
arsenate	AsO_4^{-3}

Ions with +1 charge

ammonium ion	NH_4^{+1}
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Chapter 6: $\text{H}_2\text{C}=\text{CH}_2 + \text{HBr} \rightarrow \text{H}_3\text{C}-\text{CH}_2-\text{Br}$

Chapter 7: $\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2 + 2\text{NaOH} \rightarrow \text{H}_2\text{C}(\text{OH})-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2$

Chapter 8: $\text{H}_2\text{C}=\text{CH}_2 + \text{Br}_2 \rightarrow \text{H}_3\text{C}-\text{CH}_2-\text{Br}$

Chapter 9: $\text{H}_2\text{C}=\text{CH}_2 + \text{H}_2\text{O} \xrightarrow{\text{H}^+} \text{H}_3\text{C}-\text{CH}_2-\text{OH}$

Chapter 10: $\text{H}_2\text{C}=\text{CH}_2 + \text{H}_2\text{O} \xrightarrow{\text{H}^+} \text{H}_3\text{C}-\text{CH}_2-\text{OH}$

Chapter 11: $\text{R}-\text{CH}_2-\text{X} + \text{NaOR} \rightarrow \text{R}-\text{CH}_2-\text{OR}$

ORGANIC CHEMISTRY FUNDAMENTALS

TYPES OF ORGANIC COMPOUNDS

ALKANE	ALCOHOL	ALDEHYDE	CARBONYL ACID	AMINE	ESTER
ALKENE	ETHER	KETONE	DIAMINE	NITRILE	AMIDE
ALKYNE	EPoxide	PERoxide	DIAMIDE		

FORMULAS AND ISOMERS

COMMON TERMS

NOMENCLATURE

College Algebra Core Concept Cheat Sheet

07: Absolute Value Equations and Inequalities

Key absolute value Terms

Equation: A statement that two quantities have the same value.

Linear equation of variables x: an equation that can be written in the form $ax+b=c$, $a \neq 0$, x is not equal to 0.

Absolute value: measures the distance from origin to a real number on the number line.

Notation: $|x|$ is equal to x if x is positive or equal to 0 and $-x$ if x is negative.

Solution set: collection of all solutions of an equation.

Like terms: terms whose other parts are the same.

Linear inequality: A linear equation where the equal symbol is replaced by an inequality symbol.

Identity: an equation which is true for every real number in the domain.

Contradiction: equation which is false for every real number in the domain.

Strategies for solving an absolute value equation

Solving absolute value equation like $|p| = d$, with d positive or equal to 0, consists to find real numbers that have a distance of d from the origin.

Example: Solve $|x+2| = 3$

$x+2 = 3$ or $x+2 = -3$

$x = 1$ or $x = -5$

Solving absolute value quadratic equation

Example: solve equation $|x^2 + 9| = 3$

$x^2 + 9 = 3$ or $x^2 + 9 = -3$

$x^2 = -6$ or $x^2 = -12$

No real solutions.

Solving linear inequalities

Linear inequality is solved in the same way that a linear equation is solved.

Example: Solve inequality $1-2x < 3$

Subtract 1 on both sides: $-2x < 2$

Divide both sides by -2 (we divide by a negative number direction of inequality sign is reversed): $x > -1$

Solution set is interval $(-1, \infty)$

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1.2	1.2.1	1.2.1.1
1.3	1.3.1	1.3.1.1
1.4	1.4.1	1.4.1.1
1.5	1.5.1	1.5.1.1
1.6	1.6.1	1.6.1.1
1.7	1.7.1	1.7.1.1
1.8	1.8.1	1.8.1.1
1.9	1.9.1	1.9.1.1
1.10	1.10.1	1.10.1.1
1.11	1.11.1	1.11.1.1
1.12	1.12.1	1.12.1.1
1.13	1.13.1	1.13.1.1
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1.80	1.80.1	1.80.1.1
1.81	1.81.1	1.81.1.1
1.82	1.82.1	1.82.1.1
1.83	1.83.1	1.83.1.1
1.84	1.84.1	1.84.1.1
1.85	1.85.1	1.85.1.1
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1.87	1.87.1	1.87.1.1
1.88	1.88.1	1.88.1.1
1.89	1.89.1	1.89.1.1
1.90	1.90.1	1.90.1.1
1.91	1.91.1	1.91.1.1
1.92	1.92.1	1.92.1.1
1.93	1.93.1	1.93.1.1
1.94	1.94.1	1.94.1.1
1.95	1.95.1	1.95.1.1
1.96	1.96.1	1.96.1.1
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