

5.2 Equivalent Expressions

Ex 1: Coefficients, Variables → Exponents

For each, identify the Coefficient, Variables, and exponents

		Coefficient	Variables	Exponents
a)	$3w$	3	w	1
b)	a^2	1	a	2
c)	$-4xy$	-4	x, y	1, 1
d)	$-g$	-1	g	1
SYK a)	$3c^2$			
b)	$-x$			
c)	b			
d)	$7st^2$			

Like Terms: are terms with the same combination of variable to the same powers

Ex 2: Identify Like Terms

a) $5b^2$	$3cb$	$-2b$	$7c$	$6b$
b) $3x^2$	$4xy$	$-2x^2$	$7x^2$	$\frac{1}{2}y$
c) $3pq$	11	$-4q^2$	-3	pq

SYK: a) Give an example of 3 like terms

b) $6t$ $3s$ $6t^2$ $6st$ $-8s$

Ex 3: Combine Like Terms

a) $4x - 2x + 3 - 6 = 2x - 3$

b) $2x^3 + 3x - 1 + x^2 - 4x - 2 = 3x^2 - x - 3$

c) $4 - x^3 + 2x - 5 + 3x^2 - 2x = 2x^2 - 1$

a) $5x - 3x^2 + 2x - x^2$

b) $2x - 6 - 2x + 1$

c) $k - 2k^2 + 3 + 5k^2 - 3k - 4$

