

1. Fill out the following table.

Term	Coefficient
$2uv$	2
$-x$	-1
$\frac{x}{3}$	$\frac{1}{3}$
$-\frac{2y}{5}$	$-\frac{2}{5}$

2. Identify each group of terms as like or unlike.

a) $3z^4, 2z^3$

Unlike (different variable parts: z^4 and z^3)

b) $5x, -7x$

Like (same variable parts: x and x)

c) $14, -22, 3$

Like (same variable parts: none, none, and none!)

3. Simplify.

a) $5x - 8x$

$= -3x$... $5 - 8 = 5 + (-8) = -3$

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

$= -10x^2 + 6$

c) $4x + 3(2x - 5)$

$= 4x + 6x - 15$
 $= 10x - 15$

d) $7 - 4[3 - (5y - 1)]$

$= 7 - 4[3 - 5y + 1]$

$= 7 - 4[-5y + 4]$

$= 7 + 20y - 16$
 $= 20y - 9$

e) $-\frac{2}{3}x^2 + \frac{3}{5}x + \frac{4}{3}x^2 - \frac{1}{2}x$

$-\frac{2}{3} + \frac{4}{3} = \frac{-2}{3} + \frac{4}{3} = \frac{2}{3}$

$= \frac{2}{3}x^2 + \frac{1}{10}x$

$\frac{3}{5} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$