

1a.  $(1-4+2)m-6 = -m-6$

b.  $7.2x-5.2$

c.  $8x-12-2x-2 = 6x-14$

d.  $7x-6-6x+8 = x+2$

e.  $8-5y-(4+3y) = 8-5y-4-3y = 4-8y$

f.  $6x-2-x-5 = 5x-7$

g.  $\frac{7}{3}y - \frac{1}{3} + \frac{4}{6}y + \frac{7}{6} = (\frac{7}{3} + \frac{2}{3})y + (-\frac{1}{3} + \frac{7}{6}) = \frac{9}{3}y + \frac{5}{6}$   
 $\quad \quad \quad = \frac{2}{3}y \quad \quad \quad -\frac{1}{3} \cdot \frac{2}{2} = -\frac{2}{6}$

h.  $5b^2c^3 + b^3c^2$

i.  $9y^2 - (6xy^2 - 5y^2) - 8xy^2 = 9y^2 - 6xy^2 + 5y^2 - 8xy^2 = 14y^2 - 14xy^2$

j.  $-7c^3d + 8c - 5c - 4c^3d = -11c^3d + 3c$

2a.  $\frac{x-2}{5}$

b.  $3x+8$

c.  $9x-(3x+10) = 9x-3x-10 = 6x-10$

d.  $2x-(x+10) = 2x-x-10 = x-10$

e. answers will vary.

3a.  $(-3)^3 - (-3)^2 + 4 = -27 - (9) + 4 = -27 - 9 + 4 = -36 + 4 = -32$

b.  $(-5)(0) - (-5)^2 = 0 - 25 = -25$

4.  $5x + 10(3x) + 25(30x-1) = 5x + 30x + 750x - 25 = 785x - 25$

5. answers will vary