## Evaluating Algebraic Expressions

1. Find the value of each expression if  and .

a) *a + b* b) *a – 2b* c) $\frac{1}{2}a-\frac{1}{3}b$

1. **Simplify**.

a) (2*x* – 5) + (8*x* + 13) b) (5*a* – 7*ab*) + (6*b* + 4*a*) – (9*ab* – 3*a* + 3*b*)

c) –2(4*x* + 5*y*) + 4(8*x* – 7*y*) d) –7(*x*2 + 6*x* + 9) - 5(2*x*2 - 3*x + 4*)

**Solving Equations**

1. **Solve**.

a) 3*y* + 5 = 11 b) 4*x* – 3 = -11 c) 17 = 4*c* – 3

d) 6*x* + 8 = 4*x* – 10 e) 9*p* – 10 = 6 + *p*  f) 2*m* + 6.1 = 16.5

g) $\frac{x}{2}=4$ h) $\frac{3x}{5}=-9$ i) $6=\frac{m}{4}$

j) $2\frac{x}{-7}=6$ k) $3=\frac{3}{2}x-3$ l) $\frac{1}{4}x-3=5$