

Evaluate each expression.

13) $(2x+7) \div y$ for $x=3, y=-2$

$$\frac{2(3)+7}{-2} = \frac{6+7}{-2} = \frac{-13}{2}$$

13. $-\frac{13}{2}$

Evaluate each expression for $a=-2, b=3.5, c=-4$

14) $|c+a-5|$

$$|-4+(-2)-5|$$

$$|-11|$$

11

15) $-c+a-b$

$$-(-4)+(-2)-3.5$$

$$4+(-2)-3.5$$

$$2-3.5$$

-1.5 or $-\frac{3}{2}$

14. 11

15. $-\frac{3}{2}$ or -1.5

Simplify.

16) $\frac{3-14}{-2} = \frac{-11}{-2} = \frac{11}{2}$

17) $2^3 \div (-4)$

$$\frac{8}{-4} = -2$$

16. $\frac{11}{2}$

17. -2

Simplify each expression.

18) $4(2a+2)-17$

$$4(2a)+4(2)-17$$

$$8a+8-17$$

$8a-9$

19) $-4x+3(2x-5)$

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

$$-4x+6x-15$$

$2x-15$

18. $8a-9$

19. $2x-15$

20) $5(b+4)-6b$

$$5b+20-6b$$

$-b+20$

21) $3(x+4)-2x+8$

$$3x+12-2x+8$$

$x+20$

20. $-b+20$

21. $x+20$

BONUS

$$2(18-15)^2 \div 6 + [8^2 - 4(5-3)^3] - 17$$

$$2(3)^2 \div 6 + [8^2 - 4(2)^3] - 17$$

$$2(9) \div 6 + [64 - 4(8)] - 17$$

$$18 \div 6 + [64 - 32] - 17$$

$$3 + 32 - 17 \rightarrow 35 - 17 = 18$$

BONUS

18