Name: ANSWER KEY Period:

Lesson 6-4 Classwork

No Calculators

Solve for n.

a) $(4x+3)+3(x+8)=7x+n$

$4x+3+3x+24=7x+n$

$4x+3x \quad +3+24$

$7x \quad +27 \quad = 7x+n$

$n=27$

b) $(10x+4)-2(4x-1)=2x+n$

$10x+4-8x+2=2x+n$

$10x-8x \quad +4+2$

$2x \quad +6 \quad = 2x+n$

$n=6$

c) $(9x+2)-2(-5x+3)=19x+n$

$9x+2+10x-6=19x+n$

$9x+10x \quad +2-6$

$19x \quad -4 \quad = 19x+n$

$n=-4$

d) $(7x+10)-3(5x+2)=-8x+n$

$7x+10-15x-6=-8x+n$

$7x-15x \quad +10-6$

$-8x \quad +4 \quad = -8x+n$

$n=4$

e) $(14x+5)-4(3x+7)=2x+n$

$14x+5-12x-28 = 2x+n$

$14x-12x+5-28$

$2x-23 = 2x+n$

$n=-23$

h) $(7x+8)-5(4x-10)=-13x+n$

$7x+8-20x+50 = -13x+n$

$7x-20x+8+50$

$-13x+58 = -13x+n$

$n=58$

f) $(6x+5)-2(-4x+8)=14x+n$

$6x+5+8x-16 = 14x+n$

$6x+8x+5-16$

$14x-11 = 14x+n$

$n=-11$

i) $(4x+5)+3(-2x-3)=-2x+n$

$4x+5-6x-9 = -2x+n$

$4x-6x+5-9$

$-2x-4 = -2x+n$

$n=-4$

g) $(5x+2)-2(-x-3)=7x+n$

$5x+2+2x+6 = 7x+n$

$5x+2x+2+6$

$7x+8 = 7x+n$

$n=8$

j) $(x+5)-2(2x+4)=-3x+n$

$x+5-4x-8 = -3x+n$

$x-4x+5-8$

$-3x-3 = -3x+n$

$n=-3$