Opg 7.1 A)
$$x - 8 = 20$$

 $x = 20 + 8$

$$2x = 20$$

x = 28

$$x = 10$$

C)
$$z - 3 = 3$$

$$x = 3 + 3$$

D)
$$x + 1 = 2x - 5$$

$$1 + 5 = 2x - x$$
$$6 = x$$

E)
$$x - 7 = 14 + 3x$$

$$-10,5 = x$$

$$5x - x = 7 + 1$$

$$4x = 8$$

$$x = 2$$

G)
$$x - 5 = 2x - 4$$

$$-5 + 4 = 2x - x$$

H)
$$2x - 3 = 3x - 5$$

$$-3 + 5 = 3x - 2x$$

$$2 = x$$

$$|1) \quad 4x + 2x - 3x = 6x + 14 - x$$

$$-14 = 6x - x - 4x - 2x + 3x$$

$$-14 = 2x$$

$$-7 = x$$

J)
$$12+4-6=12x+4$$

 $12+4-6-4=12x$
 $6=12x$
 $6:12=x$
 $0,5=x$

A)
$$5 - x = 10$$

 $-x = 10 - 5$
 $-x = 5$
 $-5 = x$

B)
$$14 + x = 7 + 7$$

 $x = 7 + 7 - 14$
 $x = 0$

C)
$$50 - 13 = 2x - 3$$

 $50 - 13 + 3 = 2x$
 $40 = 2x$
 $40 : 2 = x$
 $20 = x$

Opg 7.3

A)

$$2x - 33 = 55$$

 $2x = 55 + 33$
 $2x = 88$
 $88 : 2 = x$
 $44 = x$

B)
$$-2x + 20 = 30$$
$$-2x = 30 - 20$$
$$-2x = 10$$
$$x = 10 : 2$$
$$x = 5$$

C)
$$0.5x + 30 = 10$$

 $0.5x = 10 - 30$
 $x = -20 : 0.5$
 $x = -40$

D)
$$0.5x - 40 = 20$$

 $0.5x = 20 + 40$
 $0.5x = 60$
 $x = 60 : 0.5$
 $x = 120$

Opg 7.4 A)
$$-(-5+3)+4x-2*2=50$$

 $5-3+4x-2*2=50$
 $5-3+4x-4=50$
 $4x=50-5+3+3$
 $4x=52$
 $x=52:4$
 $x=13$
B) $x+3=3-(-5+3)$
 $x+3=3+5-3$

$$x = 3 + 5 - 3 - 3$$

$$x = 2$$
C)
$$25 + (13 + 12) = x - 25$$

$$25 + 25 = x - 25$$

$$25 + 25 + 25 = x$$

75 = x

Opg 7.5 A)
$$-3x * (5 + -3 : x) = -51$$

 $-3x * 5 + -3 * - 3 = -51$
 $-15x + 9 = -51$
 $-15x = -51 - 9$
 $-15x = -60$
 $x = -60 : 15$
 $x = -4$

Opg 7.6 A) 50 * (x + 1 : 2) = 37,5 * 2 + 4 * (25 + 125 : 25) 50x + 25 = 37,5 * 2 + 100 + 20 50x = 37,5 * 2 + 100 + 20 - 25 50x = 170 x = 170 : 50 x = 3,4

Opg 7.7 A) 4x : 9 = 4 : x 4x * x = 4 * 9 4x = 36 x = 36 : 4x = 9