

1 Löse die Gleichung.

$$\begin{array}{rcl} \text{a) } 3x - 2 & = & x + 10 \quad | -x \\ 2x - 2 & = & 10 \quad | \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} & = & \underline{\hspace{1cm}} \quad | :2 \\ x & = & \end{array}$$

b) $4x + 3 = x + 6$ $|-x$
 $\underline{\quad} + 3 = \underline{\quad}$ $|-3$
 $\underline{\quad} = \underline{\quad}$ $|\div 3$
 $x =$

c) $3x + 12 = x + 18$ $|-x$
 $\underline{\hspace{1cm}} + 12 = \underline{\hspace{1cm}}$ $|-12$
 $\underline{\hspace{1cm}} = \underline{\hspace{1cm}}$ $|\div 2$
 $x =$

d) $5x + 1 = 2x + 13 \quad | -2x$
 $\underline{\hspace{1cm}} + 1 = \underline{\hspace{1cm}} \quad | -1$
 $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad | :3$
 $x =$

e) $6x + 2 = 2x + 10 \quad | -2x$
 $\underline{\hspace{1cm}} + 2 = \underline{\hspace{1cm}} \quad | -2$
 $\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad | :4$
 $x =$

f) $7x + 3 = 5x + 13 \quad | -5x$
 $\underline{\quad} + 3 = \underline{\quad} \quad | -3$
 $\underline{\quad} = \underline{\quad} \quad | :2$
 $x =$

g) $4x - 1 = x + 11 \quad | -x$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | +1$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | :3$
 $x =$

h) $7x - 2 = 3x + 14 \quad | -3x$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | +2$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | :4$
 $x =$

i) $8x - 11 = 3x + 9 \quad | -3x$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | +11$
 $\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad | :5$
 $x =$

2 Löse die Gleichung.

a) $4x - 1 = 2x + 5$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

b) $5x + 1 = x + 9$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

c) $3x - 3 = x + 7$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

d) $5x + 2 = 3x + 8$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

e) $4x + 4 = x + 16$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

f) $7x - 7 = 3x + 17$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

g) $15x + 13 = 7x + 69$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

h) $17x + 4 = 5x + 40$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

i) $19x + 16 = 11x + 80$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

k) $24x - 9 = 7x + 42$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

l) $20x - 12 = 9x + 99$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

m) $18x + 12 = 6x + 60$ | _____
 _____ = _____ | _____
 _____ = _____ | _____
 x = _____

3 Fasse zuerst gleichartige Summanden zusammen. Löse dann die Gleichung.

a) $7x - 13 + x + 1 = 3x + 18$

_____ = _____ | _____

_____ = _____ | _____

_____ = _____ | _____

x = _____

b) $5x + 3 - 2x - 5 = x + 13$

_____	=	_____		_____
_____	=	_____		_____
_____	=	_____		_____
x =				

c) $2x - 2 + 4x + 6 = 3x + 19$

_____ = _____ | _____

_____ = _____ | _____

_____ = _____ | _____

x = _____

d) $3x - 2 + 3x - 1 = 8 + 2x + 9$

_____ = _____ | _____

_____ = _____ | _____

_____ = _____ | _____

x = _____

e) $x - 5 + 2x + 2 = 3x + 3 - 2x + 4$

_____ = _____ | _____

_____ = _____ | _____

_____ = _____ | _____

x = _____

f) $5x - 1 - x - 1 = -2x - 6 + 3x - 2$

_____ = _____ | _____

_____ = _____ | _____

_____ = _____ | _____

x = _____