Unit 3 - Equations

Solving Equations Using	Review: Expression vs. Equation (Equation has an = sign)
Addition and Subtraction	Equivalent Equations, Solving by Addition, Solving by Subtraction,
Section 7.1	Adding Negative Integers (opposite operations)
Pg. 342-345	Classwork pp. 344-5: 5, 7, 9, 11, 13, 15, 17, 18, 20, 26, 27, 29, 33, 43, 46,
	47, 49, 52
	Homework pp. 344-5: 6, 8, 10, 12, 14, 16, 19, 23, 28, 32, 38, 44, 45, 48,
	50, 51, 53, 54, 55

Notes: Expression: $3x^2 - 5a + 2$ Equation: 5x - 2 = 7Equation: 5x - 2 = 7Equation: 6x - 2

Solving equations requires le use of SAMDEB)

"opposite operation"

Classwork

Pg: 344 - 345

What number would you add to both sides to solve each equation?

5.
$$x-3=11$$

7.
$$n-7=-8$$

9. 3 = y - 10

What number would you subtract from both sides to solve each equation?

11.
$$x+6=13$$

13.
$$y + 2 = -7$$
 - 2

15.
$$x + 3 = 9$$
 -3

Solve and check.

17.
$$m-5=-4$$

$$M - 5 + 5 = -4 + 5$$
 $M = 1$
 $M = 1$

20.
$$r + 7 = -9$$

27.
$$x + 1.5 = 3.5$$

$$2+1.7-1.5 = 3.5-1.5$$
 check
 $2+1.7-1.5 = 3.5-1.5$ check
 $2+1.5 = 2.5$
 $2+1.5 = 3.5$
 $2+1.5 = 3.5$

33.
$$9 = 8.2 + x$$

$$9-8.2 = 8.2-8.2+2$$

0.8 = x

Solve by adding or subtracting. No check

46.
$$y - \frac{1}{7} = \frac{5}{7}$$

49.
$$\frac{7}{12} = m - \frac{1}{6}$$
 $m - \frac{1}{6} = \frac{2}{12}$

$$M-f=\frac{2}{12}$$

Check.

3.5

=3.1

18.
$$2 = -3 + n$$

 $2 + 3 = -3 + 3 + n$

26.
$$-11 = t - 1$$

$$-11+1=t-1+1$$

 $-10=t$
 $t=-10$

Check

2

29.
$$4.6 = t - 1.4$$

4.6+1.4=
$$t-1.4+1.4$$
 Check

4.6+1.4= $t-1.4+1.4$

6= t

6=1.4

6=1.4

43. Numbers Three more than a number, a eight. What is the number?

a)
$$x - 3 = 8$$

b)
$$x + 8 = \bar{3}$$

(c)
$$x+3=8$$
 d) $x-8=3$

d)
$$x - 8 = 3$$

47.
$$x + \frac{1}{2} = \frac{3}{4}$$

$$x = \frac{3}{4} - \frac{1}{2}$$

52.
$$x-4\frac{1}{2}=1\frac{1}{3}$$

$$x - \frac{9}{2} = \frac{4}{3}$$

$$z = \frac{4}{3} + \frac{9}{2}$$

$$x = \frac{8}{6} + \frac{27}{1}$$