



A. $6(1 + 2n) = -18$

$$6 + 12n = -18$$

$$\boxed{6-6} + 12n = -18-6$$

$$\frac{12n}{12} = \frac{-24}{12}$$

$$n = -2$$

B. $-(3r-6) = -4$

$$-3r + 6 = -4$$

$$-3r \boxed{+6-6} = -4-6$$

$$\frac{-3r}{-3} = \frac{-10}{-3}$$

$$r = \frac{10}{3} \quad 3\frac{1}{3}$$

3.3

$$c) \quad \frac{4x}{5} + 2 = 14$$

$$\frac{4x}{5} \boxed{+ 2 - 2} = 14 - 2$$

$$\cancel{\frac{4x}{5}} = 12 \quad (5)$$

$$\frac{4x}{4} = \frac{60}{4}$$
$$x = 15$$

Variables left hand side

a) $20.5 - 2.2x = 7.2x$

$$20.5 - 2.2x - 7.2x = \boxed{7.2x - 7.2x}$$

$$20.5 - 9.4x = 0 \leftarrow$$

$$\boxed{20.5 - 20.5} - 9.4x = 0 - 20.5$$

$$\frac{-9.4x}{-9.4} = \frac{-20.5}{-9.4}$$

$$x = 2.18$$

b) $7 - 6x = 2x + 1$

$$7 - 6x - 2x = \boxed{2x - 2x} + 1$$

$$7 - 8x = 1$$

$$\boxed{7 - 7} - 8x = 1 - 7$$

$$\frac{-8x}{-8} = \frac{-6}{-8}$$

$$x = \frac{6}{8}, \frac{3}{4}, 0.75$$

$$\underline{\frac{x}{3}} + 7 = 9$$

3

$$\frac{x}{3} + \boxed{7-7} = 9-7$$

$$\cancel{\frac{x}{3}} = 2 \cancel{(3)}$$

$$x = 6$$

$$36 + 3x = 3(6x-8)$$

$$36 + 3x = 18x - 24$$

$$36 + 3x - 18x = \boxed{18x - 18x} - 24$$

$$36 - 15x = -24$$

$$\boxed{36 - 36} - 15x = -24 - 36$$

$$\frac{-15x}{-15} = \frac{-60}{15} \quad x = 4$$

$$\cancel{(4)} \frac{x}{4} = 8^{(4)}$$

$$x = 32$$

$$\cancel{(r)} \frac{122}{r} = 3^{(r)}, r \neq 0$$

$$122 = 3r$$

$$\frac{3r}{3} = \frac{122}{3}$$

$$r = 40.\bar{6}$$

Two rental halls are considered for a wedding.

Hall A costs \$50 a person.

Hall B costs \$2000, plus \$40 per person.

Determine the number of people for which the halls will cost the same to rent.

A. Write the equation then solve

Let "p" represent people

$$\text{Hall A} = \text{Hall B}$$

$$50p = 2000 + 40p$$

$$50p - 40p = 2000 \quad \boxed{+ 40p - 40p}$$

$$\frac{10p}{10} = \frac{2000}{10}$$

p

Homework

#6 c,d

#10 b, d, f

#11 A,C,E

#17 A, B

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Thursday



New work...

#7 i, ii

Worksheet Even questions

#14.

ONLY!!!

Do NOT mark on!