

Worksheet

05/15/2020

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Problem quickname: 9505

1)Quick:
9505

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $156 - 1 = 2f - 3 \quad | \text{ rearrange and combine like terms}$
 $155 = 2f - 3 \quad | -155$
 $0 = 2f - 158 \quad | -2f$
 $-2f = -158 \quad | : -2$
 $f = 79$

b) $7q + 3 = 5 + 320 \quad | \text{ rearrange and combine like terms}$
 $7q + 3 = 325 \quad | -3$
 $7q = 322 \quad | : 7$
 $q = 46$

c) $530 - 4h = 4h + 2h \quad | \text{ rearrange and combine like terms}$
 $-4h + 530 = 6h \quad | -530$
 $-4h = 6h - 530 \quad | -6h$
 $-10h = -530 \quad | : -10$
 $h = 53$

2)Quick:
9505

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

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|--|--|
| a) $319 + 3v = 12v - 5$ Lösung: $v = 36$ | b) $8s - 2s = 252 - 3s$ Lösung: $s = 28$ |
| c) $3f + 6 = 4 + 44$ Lösung: $f = 14$ | d) $-4r + 44 = -3 + 3$ Lösung: $r = 11$ |
| e) $-4z + 2 = -364 + 2$ Lösung: $z = 91$ | |
| f) $-e + 3e = 8e - 342$ Lösung: $e = 57$ | |
| g) $-6k - 6 = -4 - 410$ Lösung: $k = 68$ | h) $3q - 3 = 142 - 4$ Lösung: $q = 47$ |
| i) $9n - 2 = -1 + 692$ Lösung: $n = 77$ | |

3)Quick:
9505

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $-3 + 1 = -482 + 10u \quad | \text{ rearrange and combine like terms}$
 $-2 = 10u - 482 \quad | +2$
 $0 = 10u - 480 \quad | -10u$
 $-10u = -480 \quad | : -10$
 $u = 48$

b) $-3b + 5 = -230 + 1 \quad | \text{ rearrange and combine like terms}$
 $-3b + 5 = -229 \quad | -5$
 $-3b = -234 \quad | : -3$
 $b = 78$

c) $i + 5i = -243 + 9i \quad | \text{ rearrange and combine like terms}$
 $6i = 9i - 243 \quad | -9i$
 $-3i = -243 \quad | : -3$
 $i = 81$

d) $-5r - 3 = -1 - 202 \quad | \text{ rearrange and combine like terms}$
 $-5r - 3 = -203 \quad | +3$
 $-5r = -200 \quad | : -5$
 $r = 40$

e) $-8d + 2 = -4 - 602 \quad | \text{ rearrange and combine like terms}$
 $-8d + 2 = -606 \quad | -2$
 $-8d = -608 \quad | : -8$
 $d = 76$

f) $-6s - 2s = -161 + 1 \quad | \text{ rearrange and combine like terms}$
 $-8s = -160 \quad | : -8$
 $s = 20$

g) $-3y + 203 = -7 + 3 \quad | \text{ rearrange and combine like terms}$
 $-3y + 203 = -4 \quad | -203$
 $-3y = -207 \quad | : -3$
 $y = 69$

h) $-2p - 4p = -2 - 496 \quad | \text{ rearrange and combine like terms}$
 $-6p = -498 \quad | : -6$
 $p = 83$

i) $-8f + 2 = 4 - 466 \quad | \text{ rearrange and combine like terms}$
 $-8f + 2 = -462 \quad | -2$
 $-8f = -464 \quad | : -8$
 $f = 58$

4)

Quick:
9505

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a) $-2r - 3 = -12r + 307 \quad | +3$
 $-2r = -12r + 310 \quad | +12r$
 $10r = 310 \quad | : 10$
 $r = 31$

b) $9g - 298 = -3 + 2 \quad | \text{ rearrange and combine like terms}$
 $9g - 298 = -1 \quad | +298$
 $9g = 297 \quad | : 9$
 $g = 33$

c) $7w + w = 300 + 4 \quad | \text{ rearrange and combine like terms}$
 $8w = 304 \quad | : 8$
 $w = 38$

d) $212 - 4p = -1 - p \quad | \text{ rearrange and combine like terms}$
 $-4p + 212 = -p - 1 \quad | -212$
 $-4p = -p - 213 \quad | +1p$
 $-3p = -213 \quad | : -3$
 $p = 71$

e) $234 - 4 = 9n - 4n \quad | \text{ rearrange and combine like terms}$
 $230 = 5n \quad | -230$
 $0 = 5n - 230 \quad | -5n$
 $-5n = -230 \quad | : -5$
 $n = 46$

f) $2n + 2n = -1 + 361 \quad | \text{ rearrange and combine like terms}$
 $4n = 360 \quad | : 4$
 $n = 90$

g) $10n + 4 = 4 + 920 \quad | \text{ rearrange and combine like terms}$
 $10n + 4 = 924 \quad | -4$
 $10n = 920 \quad | : 10$
 $n = 92$

h) $5c + 2c = 2c + 270 \quad | \text{ rearrange and combine like terms}$
 $7c = 2c + 270 \quad | -2c$
 $5c = 270 \quad | : 5$
 $c = 54$

i) $-5c + 147 = 1 + 1 \quad | \text{ rearrange and combine like terms}$
 $-5c + 147 = 2 \quad | -147$
 $-5c = -145 \quad | : -5$
 $c = 29$

Good Luck!