

EQUATION REVIEW SHEET**WS6**

Solve the following equations.

1. $x - 2 = -4$	2. $13 = -6 + a$
3. $y + \frac{3}{8} = -\frac{1}{2}$	4. $1.926 + y = -1.042$
5. $-6n = -30$	6. $-\frac{4}{3}c = -8$
7. $\frac{a}{2.9} = -7.8$	8. $-4y + 15 = 15$
9. $3 = 18 - 5x$	10. $-27 + \frac{x}{6} = 18$
11. $3(x - 3) = 4x - 1$	12. $2(x - 3) = 7(8 - x) + 3$
13. $-3m = 4m - 49$	14. $3(x - 2) - 19 = 13 - 5(x + 2)$
15. $7n - (4n + 9) = -15$	16. $12x - 9 = 8(3 - 4x)$
17. $5.6x + 6.4 = 7.2x$	18. $7x - (3 + x) = 2(4x + 1) - 5$
19. $-\frac{3}{4}x + 7 = 13$	20. $2x - 2(5 - x) = -2$

EQUATION REVIEW SHEET

WS6

Solve the following equations.

1) $x - 2 = -4$ $+2 \quad +2$ $x = -2$	2) $13 = -6 + a$ $+6 \quad +6$ $19 = a$ $a = 19$
3) $y + \frac{3}{8} = -\frac{1}{2}$ $8y + \frac{3}{1} = -\frac{4}{2}$ $8y + \frac{3}{1} = -\frac{4}{1}$ $-3 \quad -3$ $8y = -\frac{7}{1}$ $y = -\frac{7}{8}$	4) $1.926 + y = -1.042$ $-1.926 \quad -1.926$ $y = 2.968$
5) $\frac{-6n}{-6} = \frac{-30}{-6}$ $n = 5$	6) $-\frac{4}{3}c = -8$ $\rightarrow c = \frac{-8}{-\frac{4}{3}} = (-\frac{8}{1})(-\frac{3}{4})$ $(-\frac{3}{4})(-\frac{4}{3})c = (-\frac{8}{1})(-\frac{3}{4})$ $c = (-2)(-3)$ $c = 6$
7) $\frac{a}{2.9} = -7.8 \rightarrow (2.9)(\frac{a}{2.9}) = (-7.8)(2.9)$ $a = -22.62$	8) $-4y + 15 = 15$ $-15 \quad -15$ $-4y = 0 \rightarrow y = 0$
9) $3 = 18 - 5x$ $-18 \quad -18$ $-15 = -5x$ $-5 \quad -5$ $x = 3$	10) $-27 + \frac{x}{6} = 18$ multiply through by 6 $-162 + x = 108$ $+162 \quad +162$ $x = 270$
11) $3(x-3) = 4x-1$ $3x-9 = 4x-1$ $-4x \quad -4x$ $-x-9 = -1$ $+9 \quad +9$ $-x = 8$ $-1 \quad -1$ $x = -8$	12) $2(x-3) = 7(8-x) + 3$ $2x-6 = 56-7x+3$ $2x-6 = 59-7x$ $+7x \quad +7x$ $9x-6 = 59$ $+6 \quad +6$ $9x = 65$ $\frac{9x}{9} = \frac{65}{9}$ $x = \frac{65}{9}$
13) $-3m = 4m - 49$ $-4m \quad -4m$ $-7m = -49$ $-7 \quad -7$ $m = 7$	14) $3(x-2) - 19 = 13 - 5(x+2)$ $3x-6-19 = 13-5x-10$ $3x-25 = 3-5x$ $+5x \quad +5x$ $8x-25 = 3$ $+25 \quad +25$ $8x = 28$ $\frac{8x}{8} = \frac{28}{8}$ $x = \frac{7}{2}$
15) $7n - (4n+9) = -15$ $7n-4n-9 = -15$ $3n-9 = -15$ $+9 \quad +9$ $3n = -6$ $\frac{3n}{3} = \frac{-6}{3}$ $n = -2$	16) $12x - 9 = 8(3-4x)$ $12x-9 = 24-32x$ $+32x \quad +32x$ $44x-9 = 24$ $+9 \quad +9$ $44x = 33$ $\frac{44x}{44} = \frac{33}{44}$ $x = \frac{3}{4}$
17) $5.6x + 6.4 = 7.2x$ $-5.6x \quad -5.6x$ $6.4 = 1.6x$ $1.6 \quad 1.6$ $4 = x$ $x = 4$	18) $7x - (3+x) = 2(4x+1) - 5$ $7x-3-x = 8x+2-5$ $6x-3 = 8x-3$ $-6x \quad -6x$ $-3 = 8x-3$ $+3 \quad +3$ $0 = 8x$ $\frac{0}{8} = \frac{8x}{8} \rightarrow x = 0$
19) $-\frac{3}{4}x + 7 = 13$ $(-\frac{3}{4}x + 7 = 13)$ $-3x + 28 = 52$ $-28 \quad -28$ $-3x = 24$ $\frac{-3x}{-3} = \frac{24}{-3}$ $x = -8$	20) $2x - 2(5-x) = -2$ $2x-10+2x = -2$ $4x-10 = -2$ $+10 \quad +10$ $4x = 8$ $\frac{4x}{4} = \frac{8}{4}$ $x = 2$