

Exercises <sup>[A-3]</sup>

Solve the following equations. Check as directed by your teacher.

1.  $\frac{4x}{3} - \frac{1}{6} = x - \frac{1}{2}$

4.  $\frac{x-a}{7} + a = x$  (Solve for  $x$ .)

2.  $\frac{3x}{2} - \frac{x}{6} = -1$

5. Solve  $A = kw$  for  $k$ ; for  $w$ .

3.  $\frac{x-3}{4} = \frac{x}{5} - 1$

6. Solve  $D = \frac{M}{V}$  for  $M$ ; for  $V$ .

7. Solve  $A = \frac{1}{2}h(a+b)$  for  $h$ ; for  $a$ ; for  $b$ .

8. Solve  $F = \frac{wa}{g}$  for  $a$ ; for  $w$ ; for  $g$ .

9. Solve  $A = \frac{V_2 - V_1}{t}$  for  $t$ ; for  $V_2$ ; for  $V_1$ .

10.  $\frac{2a+3}{4} = \frac{a-6}{8}$

15.  $\frac{3}{a} + \frac{2}{a} = 5$

11.  $\frac{5x-1}{4} = \frac{1}{14} - \frac{7x-3}{7}$

16.  $\frac{r+1}{r} = 4$

12.  $\frac{2x}{3} = \frac{3x-1}{4} - \frac{x}{6}$

17.  $\frac{1}{x} - \frac{x-1}{3} = -\frac{1}{3}x$

13.  $\frac{2(m-1)}{3} - \frac{3}{4} = \frac{5(m+2)}{2}$

18.  $.3x = .6$

14.  $\frac{4h+1}{3} - \frac{2h+1}{5} = \frac{3}{5}$

19.  $.4x = .2x + 8$

20.  $.05x + .6 = .2x + .3$

These answers are correct. The answers on the sheet I gave out in class were all incorrect.

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1. -1

7.  $\frac{2A}{a+b}$ ;  $\frac{2A-hb}{h}$ ;  $\frac{2A-ha}{h}$

14.  $\frac{1}{2}$

2.  $-\frac{3}{4}$

8.  $\frac{Fg}{w}$ ;  $\frac{Fg}{a}$ ;  $\frac{wa}{F}$

15. 1

3. -5

9.  $\frac{V_2 - V_1}{A}$ ;  $At + V_1$ ;  $V_2 - At$

16.  $\frac{1}{3}$

4. a

10. -4

17. -3

5.  $\frac{A}{w}$ ;  $\frac{A}{F}$

11.  $\frac{1}{3}$

18. 2

6.  $DV$ ;  $\frac{M}{D}$

12. -3

19. 40

13.  $-\frac{7}{2}$

20. 2