MOHAMAD SYAFIQ BIN AHMAD

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SELF EXERCISE 8

1. $m = 30 + 2P$, $P$

$\frac{m-30}{2} = \frac{2P}{2}$

$P = \frac{m-30}{2} = \frac{m}{2} - \frac{30}{2}$

$= \frac{m}{2} - 15$

2. $a = 3c - 4$, $c$

$\frac{a+4}{3} = \frac{3c}{3}$

$c = \frac{a+4}{3}$ ✓

3. $P = 2a + 2b$, $b$

$P - 2a = 2b$

$\frac{P-2a}{2} = \frac{2b}{2}$

$b = \frac{P-2a}{2}$ ✓

4. $f = 3c - 4$, $c$

$\frac{f+4}{3} = \frac{3c}{3}$

$c = \frac{f+4}{3}$ ✓

5 $u = 7t + 30$, $t$

$u - 30 = 7t$

$\frac{u-30}{7} = \frac{7t}{7}$

$t = \frac{u-30}{7}$ ✓

$u = 7t + 30$

$u - 30 = 7t + 30 - 30$

6. $x = 3y + 2$, $y$

$x - 2 = 3y$

$\frac{x-2}{3} = \frac{3y}{3}$

$y = \frac{x-2}{3}$ ✓

7. $v = 4 + 5t$, $t$

$v - 4 = 5t$

$\frac{v-4}{5} = \frac{5t}{5}$

$t = \frac{v-4}{5}$ ✓

8. $y = \frac{1}{2}x + 1$, $x$

$y - 1 = \frac{1}{2}x$

$2 \times (y-1) = \frac{x}{2} \times 2$

$(y-1) \times 2 = x$

$x = 2y - 2$ ✓

9. $8 = \frac{a}{4} + 8u$, $a$

$4(8 - 8u) = \frac{a}{4} \times 4$

$45 - 32u = a$

$a = 45 - 32u$ ✓

10. $D = ut + kt^2$, $u$

$\frac{D - kt^2}{t} = \frac{ut}{t}$

$u = \frac{D - kt^2}{t}$ ✓

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11. $v^2 = u^2 + 2as$, $s$

$v^2 - u^2 = 2as$

$\frac{v^2 - u^2}{2a} = \frac{2as}{2a}$

$s = \frac{v^2 - u^2}{2a}$ ✓

12. $2(t-5) = y$, $t$

$2t - 10 = y$

~~$2t - 10 = y$~~

$\frac{2t}{2} = \frac{y + 10}{2}$

$t = \frac{y+10}{2}$ ✓

13. $m = 5n - 21$, $n$

~~$m + 21$~~ $m + 21 = 5n$

$\frac{m+21}{5} = \frac{5n}{5}$

$n = \frac{m+21}{5}$

14. $p = 2q + 10$, $q$

$\frac{p-10}{2} = \frac{2q}{2}$

$q = \frac{p-10}{2} = \frac{p}{2} - \frac{10}{2} = \frac{p}{2} - 5$

15. $d = \sqrt{\frac{3h}{2}}$

$2 \times d^2 = \frac{3h}{2} \times 2$ ✓

$\frac{2d^2}{3} = \frac{3h}{3}$