Rearranging Formulas – Questions

Q1) Change the subject of the formula to t.

a) $s = t + 4$

b) $s = t - 2$

c) $s = 3 - t$

d) $a = 5t$

e) $a = \frac{t}{5}$

f) $s = \frac{3t}{5}$

Q2) Change the subject of the formula to a.

a) $3a - x = a + 2x$

b) $a + 2 = x(3 + a)$

c) $z = \frac{a-3}{5-a}$

d) $x(a - 1) = b(a + 2)$

e) $a - 5 = ax + b$

f) $3a - c = a + 6c$

Q3) Change the subject of the formula to a.

a) $r = t^2$

b) $r = \sqrt{t}$

c) $r = \frac{\sqrt{t}}{5}$

d) $3t^2 + r = s$

e) $\sqrt{t + 3} = s$

f) $\frac{1}{2}\sqrt{2t - 4} = s$

Rearranging Formulas – Solutions

Q1) a) $t = s - 4$ b) $t = s + 2$ c) $t = 3 - s$

d) $t = \frac{a}{5}$ e) $t = 5a$ f) $t = \frac{5s}{3}$

Q2) a) $a = \frac{3x}{2}$ c) $a = \frac{5z + 3}{1 + z}$

b) $a = \frac{3x - 2}{1 - x}$ d) $a = \frac{2b + x}{x - b}$

Q3 a) $t = \sqrt{r}$ b) $t = r^2$ c) $t = 25r^2$

d) $t = \sqrt{\frac{s - r}{3}}$ e) $t = s^2 - 3$ f) $t = 2s^2 + 2$