A19a/b Solving Harder Equations

1) Solve the following

a) $2x + 3 = 19$

b) $3x - 2 = 13$

c) $5x - 1 = 9$

d) $3 + 2x = 23$

e) $12 - 3x = 9$

2) Solve the following

a) $2(3x - 1) = 22$

b) $3(x + 7) = 18$

c) $4(5x - 2) = 12$

d) $66 = 6(2x + 3)$

e) $20 = 5(x - 6)$

3) Solve the following

a) $\frac{x - 6}{2} = 3$

b) $\frac{x + 8}{3} = 5$

c) $\frac{2x - 1}{3} = 5$

d) $\frac{6x + 1}{2} = 8$

e) $\frac{7x - 3}{5} = 5$

4) Solve the following

a) $2x + 7 = x + 12$

b) $4x - 5 = 2x + 3$

c) $7x + 2 = 3x + 26$

d) $6x - 7 = 4x - 5$

e) $3x + 4 = x - 7$

5) Solve the following

a) $x - 6 = 2x - 13$

b) $3x + 4 = 5x - 8$

c) $4x + 17 = x - 4$

d) $5 - 2x = x - 7$

e) $2x - 1 = 14 - 3x$

6) Solve the following

a) $2(3x - 1) = 4x + 7$

b) $3(x + 4) = 2(x - 5)$

c) $5(2x - 3) = 3(3x + 4)$

d) $2(2x - 1) = 5(2x - 4)$

e) $2(2x + 3) = 5(x + 3)$

7) Solve the following

a) $\frac{2(x + 1)}{3} = 6$

b) $\frac{4(2x - 3)}{5} = 4$

c) $\frac{2(4x - 5)}{3} = x + 10$

d) $\frac{3(5x + 4)}{2} = 7x - 8$

e) $4 - x = \frac{2(x + 7)}{3}$