Algebra lesson 3 – Balancing equations Quiz

Solve the following equations by **balancing**
(**NOT** by backtracking)

E.g. Correct method ✓	Incorrect method ✗
Solve $x + 3 = 10$	Solve $x + 3 = 10$
$x + 3 - 3 = 10 - 3$	$x = 10 - 3$
$x = 7$	$= 7$

① $x + 5 = 14$ ⑤ $2x + 2 = 10$

② $x - 6 = 10$

                                          ⑥ $4x - 3 = 13$

③ $5x = 20$

④ $\dfrac{x}{4} = 8$

                                          ⑦ $\dfrac{x}{5} + 2 = 7$

⑧ $2x - 1 = 3x + 2$

⑫ $5(x - 2) = 10$

⑬ $10 - x = 2$

⑨ $-2x - 2 = 16$

⑭ $40 - 2x = 30$

⑩ $\dfrac{4x}{3} = 6$

⑪ $-\dfrac{2}{3}x - 3 = 5$