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Solve the Absolute Value Equation

Solve each equation.

1) $3 x - 2 + 5 = 7$ Solution =	2) $4 -x + 3 - 5 = -1$ Solution =	3) $2\left \frac{x}{3} + 1\right + \frac{5}{2} = 2$ Solution =
4) $5 - \left \frac{x}{2} + 3\right = -1$ Solution =	5) $3 + \frac{ x-3 }{4} = 8$ Solution =	6) $ x + \frac{1}{2} + \frac{1}{4} = 2$ Solution =
7) $\frac{1}{3 4x-1 } + \frac{1}{3} = 2$ Solution =	8) $-6 x - 1 = -4$ Solution =	9) $10 - 3\left \frac{x}{2}\right = 4$ Solution =
10) $3 2x - 1 - 6 = 8$ Solution =	11) $5\left \frac{x-2}{2}\right + 2 = 7$ Solution =	12) $7 1 - 2x + 4 = 8$ Solution =
13) $6 - \frac{ 3-x }{2} = -3$ Solution =	14) $- x + 5 + 7 = -6$ Solution =	15) $2 - \left \frac{x}{8} + 3\right = 2$ Solution =
16) $2 x - 3 + 5 = 13$ Solution =	17) $7 -x - 2 + 3 = 5$ Solution =	18) $5 - \left \frac{x}{2} - 1\right = -3$ Solution =

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Answers:

1) $3 x - 2 + 5 = 7$ Solution = $\left\{ \frac{4}{3}, \frac{8}{3} \right\}$	2) $4 -x + 3 - 5 = -1$ Solution = {2, 4}	3) $2\left \frac{x}{3} + 1\right + \frac{5}{2} = 2$ Solution = $\left\{ -\frac{15}{4}, -\frac{9}{4} \right\}$
4) $5 - \left \frac{x}{2} + 3\right = -1$ Solution = {-18, 6}	5) $3 + \frac{ x-3 }{4} = 8$ Solution = {-17, 23}	6) $ x + \frac{1}{2} + \frac{1}{4} = 2$ Solution = $\left\{ -\frac{9}{4}, \frac{5}{4} \right\}$
7) $\frac{1}{3 4x-1 } + \frac{1}{3} = 2$ Solution = $\left\{ -\frac{1}{5}, \frac{3}{10} \right\}$	8) $-6 x - 1 = -4$ Solution = $\left\{ \frac{1}{3}, \frac{5}{3} \right\}$	9) $10 - 3\left \frac{x}{2}\right = 4$ Solution = {-4, 4}
10) $3 2x - 1 - 6 = 8$ Solution = $\left\{ -\frac{11}{6}, \frac{17}{6} \right\}$	11) $5\left \frac{x-2}{2}\right + 2 = 7$ Solution = {0, 4}	12) $7 1 - 2x + 4 = 8$ Solution = $\left\{ \frac{3}{14}, \frac{11}{14} \right\}$
13) $6 - \frac{ 3-x }{2} = -3$ Solution = {-15, 21}	14) $- x + 5 + 7 = -6$ Solution = {-18, 8}	15) $2 - \left \frac{x}{8} + 3\right = 2$ Solution = {-24}
16) $2 x - 3 + 5 = 13$ Solution = {-1, 7}	17) $7 -x - 2 + 3 = 5$ Solution = $\left\{ -\frac{16}{7}, -\frac{12}{7} \right\}$	18) $5 - \left \frac{x}{2} - 1\right = -3$ Solution = {-14, 18}