Practice 3.1

Write each repeating decimal as a fraction. Show your work.

1 $0.\overline{8}$

2 $0.\overline{1}$

3 $5 - 3(x - 7) = 2(2 - x) - 8$

4 $6 + \dfrac{1}{3}(x - 9) = \dfrac{1}{2}(2 - x)$

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① $0.\overline{8}$

$\dfrac{8}{9}$

② $0.\overline{1}$

$\dfrac{1}{9}$

③ $5 - 3(x - 7) = 2(2 - x) - 8$

$x = 30$

4 $6 + \dfrac{1}{3}(x - 9) = \dfrac{1}{2}(2 - x)$ $x = -2\dfrac{2}{5}$