

Solve the following equations.

$$-9 = \frac{4}{3-x} + 2$$

$$\text{b) } \frac{1}{2x+5} - 6 = 17$$

$$\text{c) } 2 = \frac{3}{2x+6} - 5$$

$$\text{d) } \frac{3x+8}{x-5} = 10$$

Solve the following inequalities.

a) $7 > \frac{5}{8-x} + 1$

b) $\frac{1}{4x+1} < 10$

c) $5 \leq \frac{5}{9x+2} - 4$

d) $4 \geq \frac{2x+6}{8-3x}$