

$$\frac{4-2081}{|}$$

$$a) -2x - 2 = 0 \Leftrightarrow x = -1$$

$$b) i) \Delta = [2(a-1)]^2 - 4a(a-2) \\ = 4a^2 - 8a + 4 - 4a^2 + 8a = 4 > 0$$

$$x_{1,2} = \frac{-2(a-1) \pm 2}{2a} \Leftrightarrow$$

$$x_1 = -a + 1 + 1 = 2 - a$$

$$x_2 = -a + 1 - 1 = -a$$

$$ii) \left| -a + 1 - \frac{2}{a} \right| > 1 \Leftrightarrow 2 > |a| \Leftrightarrow \\ -2 < a < 2 \quad \forall a \neq 0$$