

a) ~~4.32~~ 1.33

b)  $|x+3| < 2$

$$\therefore x+3 < 2$$

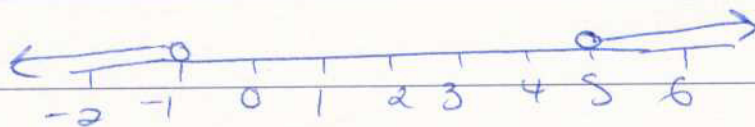
$$x < -1$$

$$\text{or } -x+3 < 2$$

$$\text{or } -x < -1$$

$$\therefore x > 1$$

$$\therefore x < -1 \text{ or } x > 1$$



c)  $x^2 - 2x - 8 = 0$

$$\therefore (x+2)(x-4) = 0$$

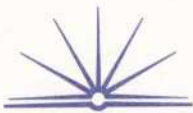
$$\therefore x = 4 \text{ or } x = -2.$$

a)  $\int 3 + \frac{1}{x} dx = 3x + \ln|x| + c$

e)  $\frac{x}{x^2-4} + \frac{2}{x-2} = \frac{x}{(x+2)(x-2)} + \frac{2}{x-2}$

$$= \frac{x + 2(x+2)}{(x+2)(x-2)}$$

$$= \frac{x + 2x + 4}{(x+2)(x-2)}$$



~~leighton~~  
A.

$$1f) \$979 = 110\%$$

$$\therefore 1\% = \frac{979}{110}$$

$$\therefore 100\% = 4 \frac{979}{110} \times 100$$

$$= \underline{\underline{\$890}}$$