

Z.C.2.2.19.

$$\frac{dy}{dx} = \frac{xy + 3x - y - 3}{xy - 2x + 4y - 8} = \frac{x(y + 3) - (y + 3)}{x(y - 2) + 4(y - 2)} = \frac{(x - 1)(y + 3)}{(x + 4)(y - 2)}$$

Separabel

a)  $\text{Konstantlösningar : } y = -3.$

b)  $y = -3: \frac{y - 2}{y + 3} \frac{dy}{dx} = \frac{(x - 1)}{(x + 4)}$

$$\left(1 - \frac{5}{y + 3}\right) \frac{dy}{dx} = 1 - \frac{5}{x + 4}$$

$$y - 5 \ln|y + 3| = x - 5 \ln|x + 4| + C$$