



a) 0.0714

b) $\frac{dy}{dx} = 3x^2$

c) $x^2 - 5x = 0$

$$x(x-5) = 0$$

$$\boxed{x=0} \quad \boxed{x=5}$$

d) $\int \frac{3}{x} dx = 3 \ln x + c$

e) $3x - \frac{2x-5}{2} - 6 = 0$

$$6x - 2x - 5 - 12 = 0$$

$$4x = 17$$

$$\boxed{x = 4\frac{1}{4}}$$

f) $\begin{cases} x - 2y = 8 \\ 2x + y = 1 \end{cases}$

$$\begin{array}{r} \begin{cases} 2x - 4y = 16 \\ 2x + y = 1 \end{cases} \\ - \\ \hline 0 - 5y = 15 \end{array}$$

$$\boxed{y = -3}$$

$$\boxed{x = 2}$$