(Report 
$$\frac{9}{2}$$
M)

(I)  $(4-2y+3)dx + (2x-y+4) dy = 0$ 

(2)  $(xx-y+2)dx + (4x-2y-1)dy = 0$ 

(3)  $(4x+3y-4)dx + (2x-1y-3)dy = 0$ 

(4)  $(xx-2y+3) dx + (2x-1y+4) dy = 0$ 

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(2) 
$$(xx-y+2)dx + (4x)-2y-1)dy = 0$$

$$\begin{cases}
2x-y+2 = 0 \\
4x-2y-1 = 0
\end{cases}$$

$$\begin{cases}
2x-y = t \\
2-\frac{dy}{dx} = \frac{de}{dx} \qquad \frac{dy}{dx} = 2-\frac{de}{dx}
\end{cases}$$

$$(2x-y+2) + (4x-2y-1)\frac{dy}{dx} = 0$$

$$(t+2) + (2t-1)(2-\frac{de}{dx}) = 0$$

$$2-\frac{dt}{dx} = -\frac{t+2}{3t-1}$$

$$dx = \frac{2t-1}{5t}dt$$

$$\int_{1}^{1} dx = \int_{2}^{2} \frac{e}{(1-\frac{1}{2}e)}dt = \frac{e}{e}t - \frac{1}{2} \ln t + C$$

$$x = \frac{2}{5}(2x-y) - \frac{1}{2} \ln (xx-y) + C.$$
(3)  $(4x+2y-4) dx + (3x-1y-3) dy = 0$ 

$$4x+2y-4 = 0$$

$$2x-1y-3 = 0$$

$$4x+2y-4 = 0$$

$$2x-2x-2y-12 = 0$$

$$x = 0$$

 $t + a \frac{dt}{da} = \frac{4+3t}{3-nt}$   $a \frac{dt}{da} = \frac{(+1)t}{3-nt}$ 

$$\frac{a}{db} = \frac{1+a-c}{3-a+c}$$

$$\frac{1}{a} da = \frac{3-a+c}{1+a-c} dc \qquad bc = (a-1) \frac{1}{10} - 3$$

$$\int \frac{1}{a} da = \int \frac{3-a+c}{1+a-c} dc \qquad bc = 4a.$$

$$= \int \frac{1}{b} \left( (1-b) \frac{1}{10} + 3 \right) \frac{1}{10} db.$$

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$$= \int \frac{1}{b} \left( \frac{3a}{10} - \frac{1}{10} \frac{b}{b} \right) \frac{1}{10} db.$$

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$$= \frac{3a}{10} \ln (1+ab) - \frac{1}{100} (1+ab) + C$$

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$$= \frac{3a}{100} \ln (1+$$

 $= \frac{2}{5} \left( t - \frac{1}{2} \ln |t - 2| \right) + C$ 

=  $\frac{2}{5}(2x+y) - \frac{1}{5}\ln(5(2x)+y) - 2) + C$