**①** a)    $0.07135$

b)    $3x^2$

c)    $x^2 = 5x$

$x^2 - 5x = 0$

$x(x-5) = 0$

$x = 0, \; 5$

d)    $\dfrac{d\beta}{dx}\!\!\!\!\!/$

$= 3\log x$
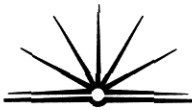
e)    $3x - \dfrac{2x-5}{2} = 6$

$3x - \dfrac{2x}{2} + \dfrac{5}{2} = 6$

$3x - x = 3\tfrac{1}{2}$

$2x = 3\tfrac{1}{2}$

$x = 1\dfrac{3}{4}$

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f)

$$x - 2y = 8 \quad \textcircled{1}$$
$$2x + y = 1 \quad \textcircled{2}$$

$$\therefore x = 2y + 8 \quad \textcircled{1}$$
sub $\textcircled{1}$ into $\textcircled{2}$

$$2(2y + 8) + y = 1$$
$$4y + 16 + y = 1$$
$$5y = -15$$
$$y = -3$$

$$\therefore x = 2 \times -3 + 8$$
$$= -6 + 8$$
$$= 2$$