

$$\textcircled{5} \quad \frac{\partial y}{\partial} = \frac{x^2}{\partial} + \frac{6x}{\partial} - \frac{4}{\partial}$$

$$\boxed{y = \frac{1}{\partial}x^2 + 3x - \partial} \quad (\text{General})$$

$$\textcircled{1} \quad y + \partial = \frac{1}{\partial}x^2 + 3x$$

$$\textcircled{2} \quad y + \partial = \frac{1}{\partial}(x^2 + 6x)$$

$$\textcircled{3} \quad y + \partial + \frac{9}{\partial} = \frac{1}{\partial}(x^2 + \underline{6x} + \underline{9})$$

$$6 \times \frac{1}{\partial} = (\underline{3})^{\partial} = 9$$

$$\textcircled{4} \quad y + \frac{4}{\partial} + \frac{9}{\partial} = \frac{1}{\partial}(x + \underline{3})^{\partial}$$

$$y + \frac{13}{\partial} = \frac{1}{\partial}(x + 3)^{\partial}$$

$$\boxed{\textcircled{5} \quad y = \frac{1}{\partial}(x+3)^{\partial} - \frac{13}{\partial}} \quad (\text{Standard})$$

$$y - \frac{13}{\partial} = \frac{1}{\partial}(x+3)^{\partial}$$

$$\boxed{2(y - \frac{13}{\partial}) = (x+3)^{\partial}} \quad (\text{Transformational})$$

$$\textcircled{6} \quad \frac{3y}{3} = \frac{6x^2}{3} + \frac{3x}{3} + \frac{1}{3}$$

When dividing fractions you multiply by the reciprocal

$$y = 2x^2 + \frac{1}{3}x + \frac{1}{3}$$

$$\textcircled{1} \quad y - \frac{1}{3} = 2x^2 + \frac{1}{3}x$$

$$\textcircled{2} \quad y - \frac{1}{3} = 2\left(x^2 + \frac{1}{4}x\right)$$

$$\textcircled{3} \quad y - \frac{1}{3} + \frac{2}{64} = 2\left(x^2 + \frac{1}{4}x + \frac{1}{64}\right)$$

$$\frac{1}{4} \times \frac{1}{4} = \left(\frac{1}{8}\right)^2 = \left(\frac{1}{64}\right)$$

$$\textcircled{4} \quad y - \frac{1}{3} + \frac{1}{32} = 2\left(x + \frac{1}{8}\right)^2$$

$$y - \frac{32}{96} + \frac{3}{96} = 2\left(x + \frac{1}{8}\right)^2$$

$$y - \frac{29}{96} = 2\left(x + \frac{1}{8}\right)^2$$

$$\textcircled{5} \quad y = 2\left(x + \frac{1}{8}\right)^2 + \frac{29}{96}$$

$$\left(y - \frac{29}{96}\right) = 2\left(x + \frac{1}{8}\right)^2$$

$$\frac{1}{2}\left(y - \frac{29}{96}\right) = \left(x + \frac{1}{8}\right)^2$$