Teste Pretice 2021/32

(a)
$$\frac{\partial T}{\partial t} = \alpha \frac{\partial^{3}T}{\partial x^{3}} - \mu \frac{\partial T}{\partial x}$$
(b)
$$\frac{\partial T}{\partial t} = \alpha \frac{\partial^{3}T}{\partial x^{3}} - \mu \frac{\partial T}{\partial x}$$
(c)
$$\frac{T(i,n+t)-T(i,n)}{\Delta t} = \alpha \frac{T(i-t,n)-2T(i,n)+T(i-t,n)}{\Delta x^{3}} - \Delta t \mu \frac{T(i-t,n)-T(i-t,n)}{\Delta x^{3}}$$

$$D = \alpha \frac{\Delta t}{\Delta x^{3}} = C = \frac{\mu}{3} \frac{\Delta t}{\Delta x}$$
(d)
$$\frac{T(i,n+t)}{\Delta x^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(e)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(f)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(g)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(g)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(h)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(h)
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(h)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + D(T_{i+1,n} - \lambda T_{i,n} + T_{i+1,n}) - C(T_{i+1,n} - T_{i+1,n})$$
(h)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + T_{i,n} + T_{i+1,n}$$
(h)
$$\frac{d^{3}T_{i,n+t}}{dt^{3}} = T_{i,n} + T_{i,n}$$
(h)