

10 Due Friday Dec 8
✓4.18

Michael Vu

4.35

$$\begin{array}{r} 118 \text{ r } 2 \\ 4 \overline{) 474} \end{array}$$

$$13^{474} \Rightarrow \phi(10) = 4$$

$$13^4 \equiv 1 \pmod{10}$$

$$(13^4)^{118} \equiv 1^{118} \pmod{10}$$

$$13^{472} 13^2 \equiv 13^2 \pmod{10}$$

$$13^{474} \equiv 13^2 \equiv 9 \pmod{10}$$