Homework #5

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SOS40017

Ex 9.4

a) For May,

$t = 12 + (4/12)$

forecast, $\hat{\mu}_t = 46.2660 + (-26.7079)\cos\left(2\pi\left(\frac{12+4}{12}\right)\right)$
$+ (-2.1697)\sin\left(2\pi\left(\frac{12+4}{12}\right)\right)$

$= 57.7°F$

b) 95% prediction limit $\Rightarrow$ $57.7°F \pm (2(3.719))$

$\Rightarrow$ $50.3°F \leq$ 95% prediction limit $\leq 65.1°F$