



2. $t = 0$

3. $y_2 = .0045(\sin 69.813x - 14.451t + 2.5)$

4. $y_3 = .0045\left(2 \sin\left(\frac{(139.626x - 28.902t + 2.5)}{2}\right) \cos\left(-\frac{2.5}{2}\right)\right)$

5.

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11.