

- 1.) The table below shows different temperatures at various times during a particular day in March.

Notes: a.) When typing times after noon, use military time (1:00 pm = 13, 3:30 pm = 15.5, etc.)

b.) Do NOT ROUND when stating the regression equation (put it in the correct format)

Do ROUND to the NEAREST TENTH place when stating answers for the questions.

Time	7:00 am	8:45 am ^{8.75}	9:30 am ^{9.5}	12:00 pm	2:15 pm ^{14.25}
Temperature °F	30°	38°	45°	57°	63°

a.) Write the linear regression equation: $y = 4.68311488x - 1.636083269$

b.) Write the correlation coefficient: $r = .9875326741$

c.) Using regression equation, what is the temperature at 1:45 pm? 62.8° F

d.) Using regression equation, what time would it be if the temperature is 41.7°? 9.25 → 9:15am

$y = 41.7 \rightarrow x = ?$ intersection