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|---|--|---|
| 1) Trigonometric (sin or cos)
2) Quadratic
3) Can't tell
4) Linear | 6) a: not linear
b: poor experiment
or skewed data or
non-linear relationship | 8) a) $y = 9.7x + 0.4$
b) well-connected
c) 24.65 m/s |
|---|--|---|
- 10) a) $y = -0.332x + 612.933$
 b) well-connected
 c) 446.790
- 12) $S = 180.893x^2 - 205.786x + 272$
 c) 583.98 lbs
- 15) $y = -1.806x^3 + 14.583x^2 + 16.389x + 10$
 c) ≈ 214 horsepower
- 16) $T = 2.986 \times 10^{-4}p^3 - 0.064p^2 + 5.283x + 143.101$
 c) 68.148
 d) It gets too high too fast and there is no data to confirm
 such a fast increase.
- 18) $S(t) = 56.37 + 25.47\sin(0.508t - 2.07)$
 d) 83.70°F for Miami, 56.37°F for Syracuse
 e) about 1 year. f) Syracuse has greater amplitude. (25.47)

