## Bench Press $=\mathbf{f}($ Time $)$

It appears that muscles develop asymptotically if they are regularly trained. Here is some data showing strength improvement in the bench press for an individual over a period of time. Model the weight bench-pressed as a function of time. Interpolate to estimate the weight at 5 years. Use the inverse function to predict in when the weight would be double the original level.

| Time <br> (years) | Bench <br> Press <br> (Pounds) |
| :---: | :---: |
| 0 | 100 |
| 1 | 190 |
| 2 | 250 |
| 3 | 300 |
| 10 | 390 |
| 15 | 400 |
| 20 | 400 |
| 30 | 400 |
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| Time <br> (years) | Bench <br> Press <br> (Pounds) |
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