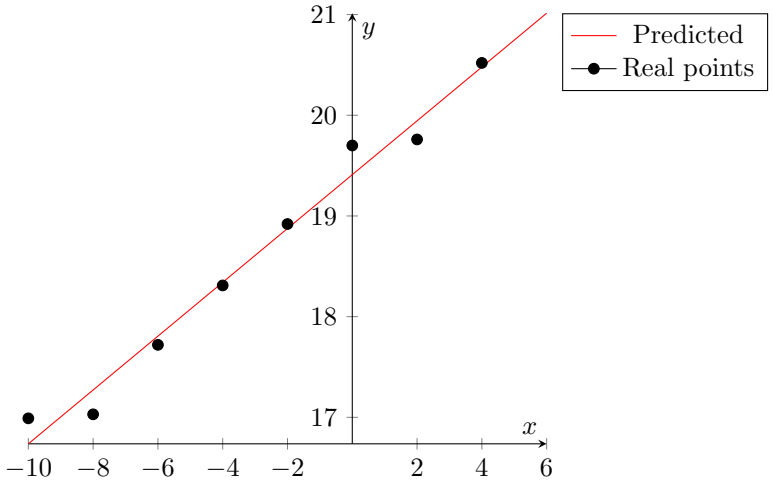
Oil Project

Year	1990	1992	1994	1996	1998	2000	2002	2004
X	-10	-8	-6	-4	-2	0	2	4
Y	16.99	17.03	17.72	18.31	18.92	19.70	19.76	20.52

Year	X	Y	X^2	XY
1990	-10	16.99	100	-169.90
1992	-8	17.03	64	-136.24
1994	-6	17.72	36	-106.32
1996	-4	18.31	16	-73.24
1998	-2	18.92	4	-37.84
2000	0	19.70	0	0
2002	2	19.76	4	39.52
2004	4	20.52	16	82.08
$\sum$	-24	148.95	240	-401.94

Comparison Graph of Predicted vs Real Values



$$m = (8 * -401.94 - -24 * 148.95) \backslash (8 * 240 - 576) \approx 0.2673$$

$$b = \frac{148.95 - 0.2673 * -24}{8} = 19.42$$

Equation : $O(x) = 0.2673 * year + 19.42$

1. $O(20) \approx 24.76$; Yearly ≈ 9.039 billion barrels
2. $O(25) \approx 26.1$; Yearly ≈ 9.52741 billion barrels
3. Change is constant; therefore it is 97.56 million barrels increase per year
4. Average gallons of gas produced per barrel is 19-20; Assuming an average of 19.5 gallons per barrel you can compute the following
   (a) 176.26 billion gallons
   (b) 185.78 billion gallons
   (c) 1.902 billion gallons
5. $O(x) = 30,000,000; (30 - 19.42)/.2673 \approx 39.58$
   Approximately 2040 AD