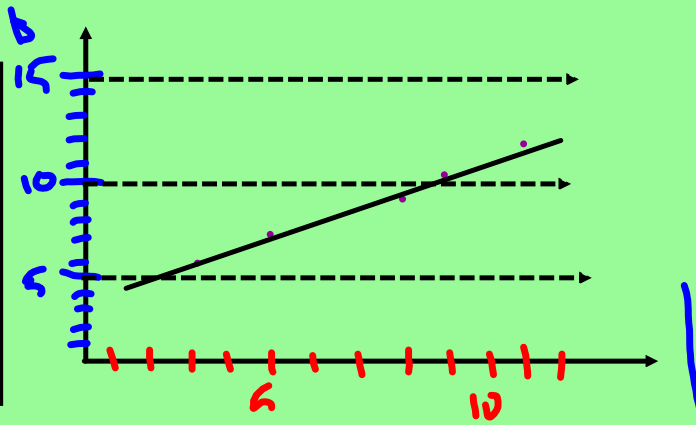
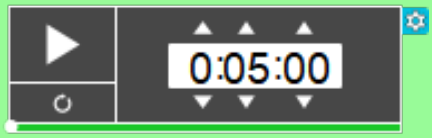
Welcome! October 4th, 2019
Calculators!

Use this data to create a line of best fit. Then create an equation that represents the linear progression of a stock price. Finally, project the stock price in 25 years.

1) Sprigley Sprockets Corp.

Year	Stock Price
2003	$5.60
2005	$7.20
2008	$9.50
2009	$10.20
2011	$12.50





In Class practice and breakeven probs(Makita)

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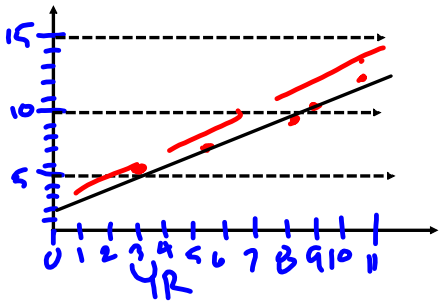

(3, 5.60) (9, 10.20)

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{10.20 - 5.60}{9 - 3} = \frac{4.6}{6}$

$m = .766$

$y = mx + b$

$5.6 = .766(3) + b$

$5.6 = 2.298 + b$

$-2.298 \quad -2.298$

$3.302 = b$

$y = .77x + 3.30$

25 yrs: $y = .77(25) + 3.30$

$22.55

$y = .86x + 3.02$

$y = .78x + 2.39$

$y = .88x + 2.79$

$y = .78x + 3.26$

In Class practice and breakeven probs(Makita)

HOMEWORK

$C(x) = 3x + 100$

$R(x) = -9x^2 + 75x + 70$

In Class practice and breakeven probs(Makita)

IN CLASS 10/4/19

MAKITA
TOOLS
(MKTAY)

10/1/12 → $20.50

10/1/16 → 34.74

1. EQUATION OF LINE
2. TODAY'S PREDICTED PRICE