

Unit 2 Assessment
Quiz 6: Sections 2.3–25

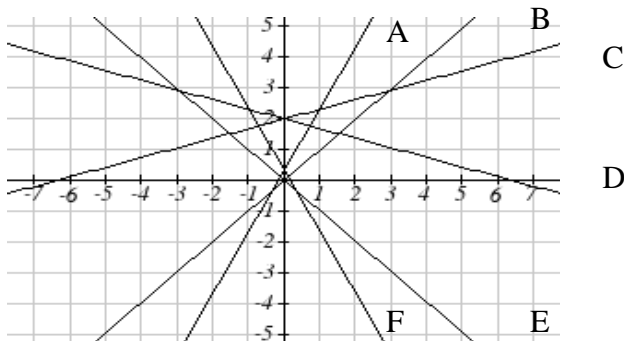
1. Given the information in the box below, answer the following questions. Then use your calculator, and round your FINAL answer to three decimal places.

a. Evaluate $y(3)$.

b. Solve $y = 3$.

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LinReg
y=ax+b
a=.3120779162
b=1.987321483
r2=.972658829
r=.9862346724
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c. Which line below best represents the linear regression line above?



2. Solve $3|x-1|-2 \geq 0$. Write your answer in interval notation.

3. In the year 2000, Tim was 70 cm tall. In the year 2008, Tim was 110 cm tall. In the year 1995, Lisa was 50 cm tall. In the year 2002, Lisa was 60 cm tall. Assuming Lisa and Tim's height can be represented as linear models, when will Tim be twice as tall as Lisa? Express your answer in years after 2000.

(Note: Tim and Lisa are bamboo plants.)