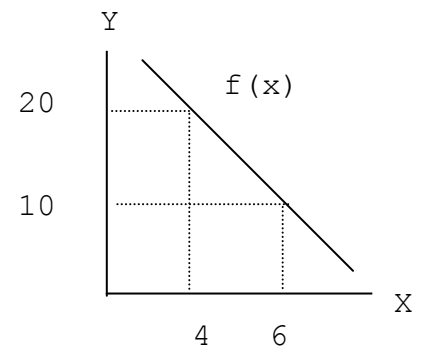


Economics 50
Mathematical Diagnostic Tool
Dr. Fayazmanesh

This instrument is provided so that you can test your competence on the mathematical skills needed in principles of macroeconomics. If, without the use of a calculator, you have difficulty answering these questions, you should think of augmenting your math background before attempting to do this course.

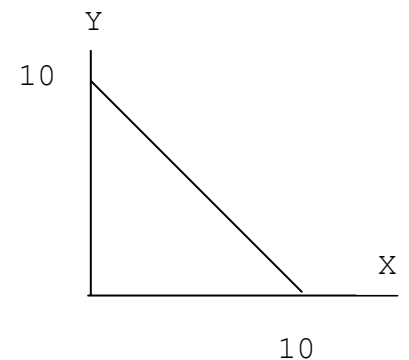
1. Expressed as a percentage, $10/25$ is _____.
2. 12% divided by 0.5% is equal to _____.
3. $(1/20)$ divided by $(3/2)$ is equal to _____.
4. 20% of 50 is equal to _____.
5. Your grade changes from 25 to 35 . Relative to the first grade, the percentage increase in your grade is equal to _____.
6. If $a=4$, $b=6$, then $((a-b)/2)$ divided by $((a+b)/2)$ is equal to _____.
7. You will have three exams in a course, each worth 100 points. Your first exam is 75 points and the second exam is 45 points. In order to get 65% in the course, your grade on the third exam must be _____.

8. In the graph on the right, the slope of the function $f(x)$ is approximately _____.



9. $2Y=22X + 10$. The slope of this line is _____ and the Y intercept is _____.

10. The area of the triangle to the right is equal to _____.



Answers:

1. 40 %.
2. 24.
3. $\frac{1}{30}$.
4. 10.
5. 40%.
6. $-\frac{1}{5}$.
7. 75.
8. -5.
9. 11, 5.
10. 50