Monday, September 26

For all x for which the expression is defined, $\frac{2x^2-6x-20}{2x^2-50}$ simplifies to:

a. $\frac{2}{5}$

b. 1

c. $\frac{x-2}{x-5}$

d. $\frac{x+2}{x+5}$ 

e. $\frac{2(x+2)}{x+5}$

Tuesday, September 27

In the figure below, the circle with center P is inscribed in ΔABC. The length of $\overline{AB}$ is 10, the length of $\overline{BD}$ is 4, and the length of $\overline{DC}$ is 5. What is the length of $\overline{ED}$?

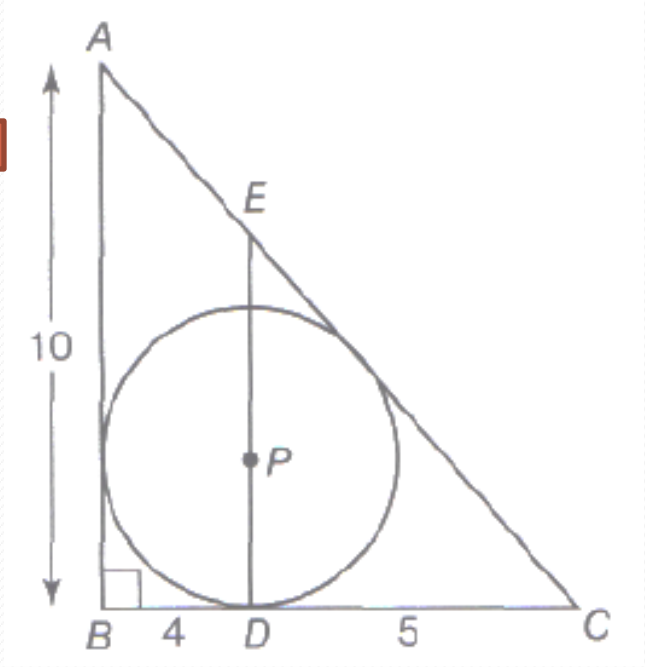
f. 9

g. $5\frac{5}{9}$

h. $5\frac{3}{5}$

j. $4\frac{1}{2}$

k. $3\frac{3}{5}$



Wednesday, September 28

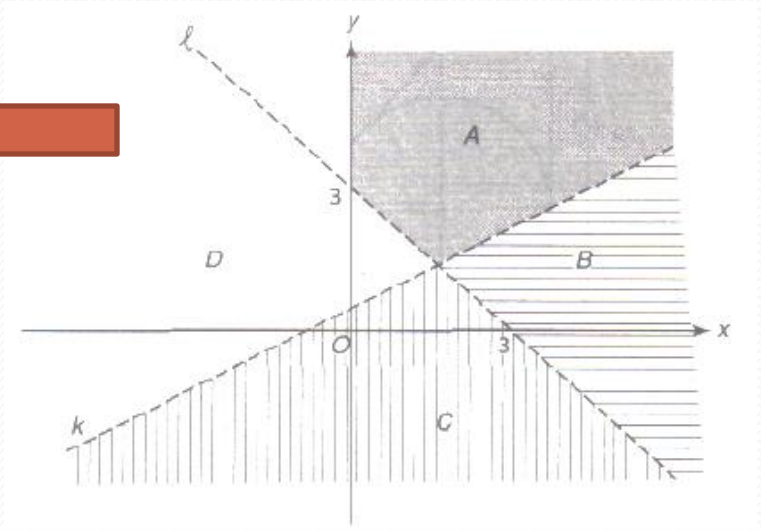
Consider the following system of inequalities:

$$x + y > 3$$

$$x - 2y > 1$$

Which region in the graph shown below indicates the solution set of the system of inequalities?

a. Region A
b. Region B
c. Region C
d. Region D
e. The empty set



Thursday, September 29

A freight moving company charges $25 per ton for the first 10 tons of freight, $20 per ton for the next 15 tons, and $15 per ton for any tons over 25 tons. What will the company charge for a shipment weighing 55 tons?

f. $900

g. $925

h. $1000 

j. $1100

k. $1150

Friday, September 30

ABCD is a parallelogram, and the angles are as marked. Which conclusion(s) is/are valid?

I. AP = BC

II. x > y

III. x + y = 180

a. I only.

b. II only.

c. I and II only.

d. II and III only.

e. I, II, and III.