Alg 1 Week 17 Tues   Warm Up

1. Skill 19: Multiply and Divide Rational Expressions. Simplify completely.

$$\frac{4x-12}{2x^2+5x+3} \cdot \frac{x^2+4x+3}{x^2-9}$$

2. Skill 20 : Construct a box and whisker plot for a set of data, and find the mean and range.

42, 43, 43, 47, 48, 48, 48, 49, 50, 51, 53

3. Probability. A spinner with 8 equal parts is numbered 1-8 and is spun once.

   a. Find P(even number or 5)

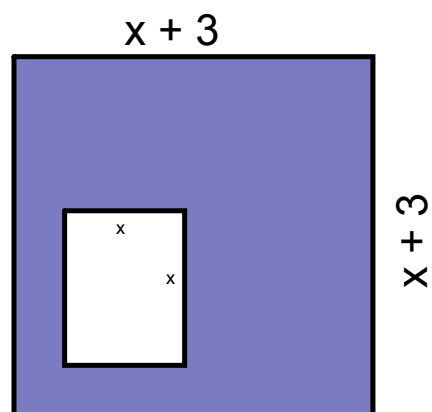   b. Find P(3 or 4)

   c. Find P(odd number or multiple of 2)

Problem A.

Write your answer in standard form.

1. a) Find the area of the large box
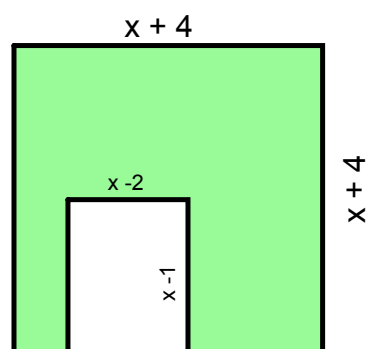
x + 3

b) Find the area of the small white box

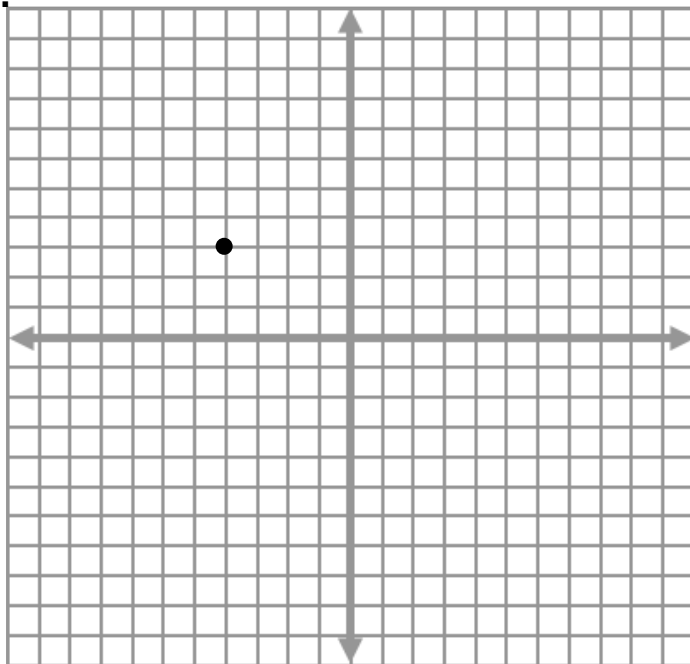x + 3

x

x

c) Find the area of the shaded region

2. a) Find the area of the large box

x + 4

x + 4

x -2

x -1

b) Find the area of the small white box

c) Find the area of the shaded region

Problem B.

1. Graph the point (-2, -1)

2. Connect the points and write the equation of the line.

3. Is the point (2, -8) on this line? Why or why not?

4. A plumber chargers $80 service fee, plus $65 per hour. Write a function P(x) to represent the cost of having a plumber come to your house and work for x hours.