

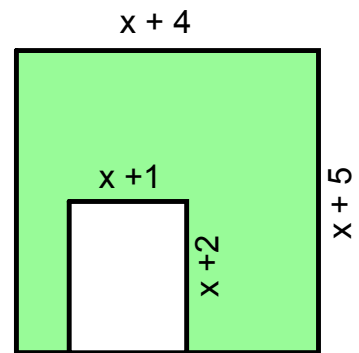
1. Skill 20: Construct a box and whisker plot for a set of data, and find the mean and the range.

27, 29, 31, 32, 33, 39, 40, 42

2. a) Find the area of the large rectangle

b) Find the area of the small white rectangle

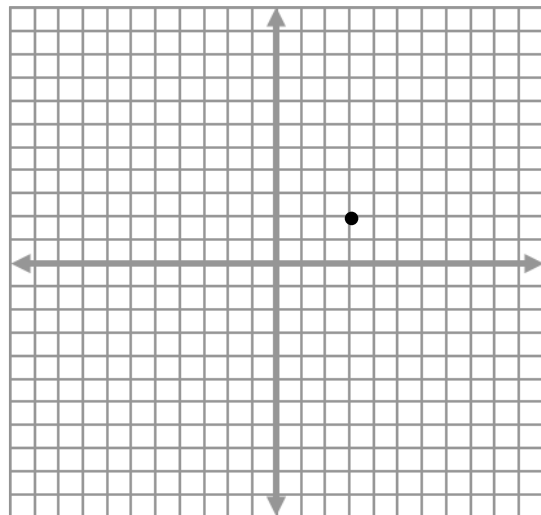
c) Find the area of the shaded region



3. a. Graph the point  $(-6, -1)$

b. Connect the points and write the equation of the line between them.

c. Is the point  $(18, 7)$  on this line?  
Explain how you know.



# Skill Test 20.4

Hwk!!!




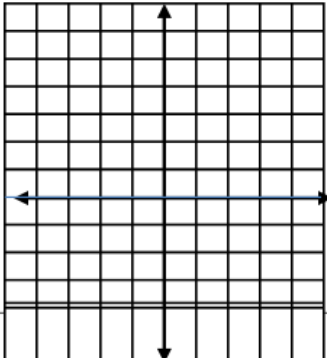
SEMESTER 2 FINAL EXAM REVIEW #3

# Final Exam PT begins tomorrow

Name \_\_\_\_\_

<p>1 Simplify completely:</p> $\frac{x^2 - 16}{2x - 6} \div \frac{x + 4}{x^2 + x - 12}$	<p>2. Simplify completely:</p> $\frac{8x^3 + 2x^2}{4x}$	<p>3. Simplify completely:</p> $\frac{7x + 7}{x^2} \cdot \frac{x^3}{x + 1}$
<p>4. There are 15 blue chips and 12 red chips in a box. If you choose one chip, what is the probability that you will draw a red chip?</p>	<p>5. Simplify:</p> $(3x^2 - x - 8) - (7x + 9x^2 - 7)$	<p>6. Simplify: <math>\frac{9x^2y^{13}}{-3x^2y^4}</math></p>
<p>7. Multiply and simplify:</p> $(2a + 5)(3a - 1)$	<p>8. Factor completely:</p> $9x^2 - 27x + 18.$	<p>9. Factor completely:</p> $24y^2 - 4y - 8$

A1S2w18d1 Review for final.notebook

<p>10. Find the slope of the line containing (4,-2) and (7,9).</p>	<p>11. What is the area of the shaded region?</p> 	<p>12. Solve , then graph on a number line.  <math>4c - (6c + 12) &gt; 12 + 2(c - 8)</math></p> 
<p>13. Solve and graph  <math>-2 \leq 2x + 4</math> and <math>x + 4 &lt; -1</math></p> 	<p>14. What are the x-intercepts of <math>x^2 - 6x + 5 = 0</math></p>	<p>15. A student has scores of 12, 9, 8, and 11. What score must the student earn on the fifth test in order to have an average score of 11?</p>
<p>16. Graph and label the lines</p> <p>a) <math>y = -x + 2</math>      c) <math>x = 4</math></p> <p>b) <math>2x - 3y = 6</math>      d) <math>y = -3</math></p> 	<p>17. Write a function for the situations described:</p> <p>a) It costs \$35 to rent a car and \$0.48 per mile</p> <p>b) There are 73 loaves of bread and the kids eat 7 loaves per day.</p> <p>c) A kite starts 4 feet off the ground and climbs 200 feet per minute</p>	<p>18. The height of a rectangle is three more than twice the base. The area is 119 sq in. What is the height?</p>