

Precalculus

Name \_\_\_\_\_

Chapter P Test Review

No graphing calculator  
for questions 1 - 6!!

1. Find the distance between the points  $(-8, 5)$  and  $(3, 2)$ ...leave answer in radical form if needed.

1. \_\_\_\_\_

2. Solve:  $3(x + 2) = 5(2x - 3) - 7$

2. \_\_\_\_\_

3. Solve:  $-1 < 4x - 1 \leq 11$   
Write your solution in interval notation and graph it on the number line provided.

3. \_\_\_\_\_



4. Solve:  $|2x + 3| \geq 1$   
Write your solution in interval notation.

4. \_\_\_\_\_

5. Solve:  $6x^2 - 4x + 5 = 0$

5. \_\_\_\_\_

6. Write the complex number  $\frac{7 + 4i}{4 - 3i}$  in standard form.

6. \_\_\_\_\_

7. Find the equation of a line that contains (3, 4) and has a slope of 2.  
Write the equation in point-slope form. 7. \_\_\_\_\_
8. Find the equation of a line that has x-int of 2 and y-int of -7.  
Write the equation in slope-intercept form. 8. \_\_\_\_\_
9. Find the equation of a line that passes through (10, -3) and whose graph is perpendicular to the graph  $y = 5x - 2$ .  
Write the equation in slope-intercept form. 9. \_\_\_\_\_
10. Write the equation of the line that passes through the points (4, -10) and (-1, 5).  
Write the equation in slope-intercept form. 10. \_\_\_\_\_
11. In standard form, write the equation of a circle with center (2, -6) and radius 9. 11. \_\_\_\_\_
12. Solve graphically:  $4x^3 - 2x^2 - 4x - 1 = 0$  12. \_\_\_\_\_
13. Solve graphically:  $x^2 - x - 6 \leq 0$   
Express your solution in interval notation. 13. \_\_\_\_\_

$$(1+i) + (3-7i)$$