

Trigonometry

Name: _____

Study Guide 2

Class: _____

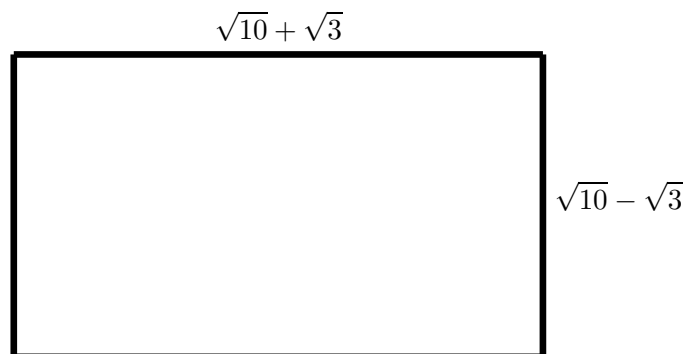
Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

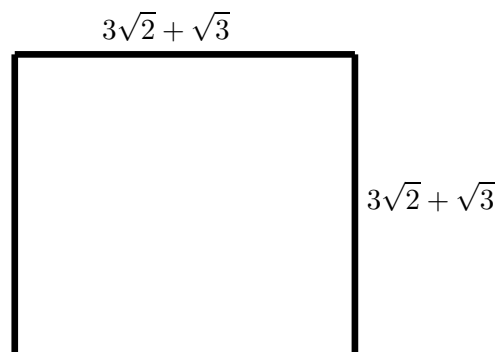
Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (5 points) Find an expression in simplest form for the area and the perimeter of the shape below.



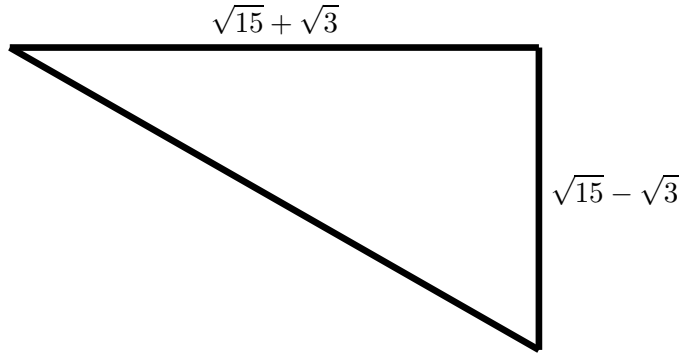
1. _____

2. (5 points) Find an expression in simplest form for the area and the perimeter of the shape below.



2. _____

3. (6 points) Find the measure of the hypotenuse of the shape below in simplest form.

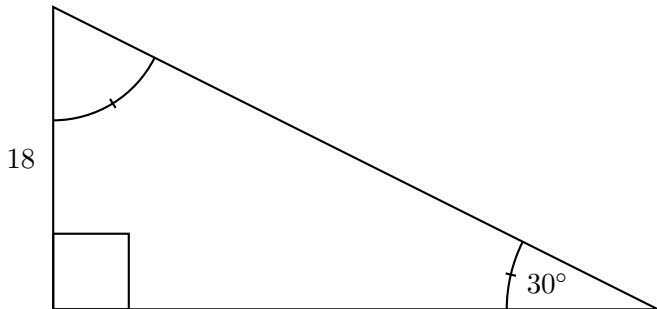


3. _____

4. (3 points) Simplify: $\sqrt[3]{(2x - 3)^3} - (\sqrt[5]{3x - 5})^5 + (\sqrt{x} + \sqrt{2})(\sqrt{x} - \sqrt{2})$

4. _____

5. (5 points) Find the missing sides and missing angles of the right triangle given below.

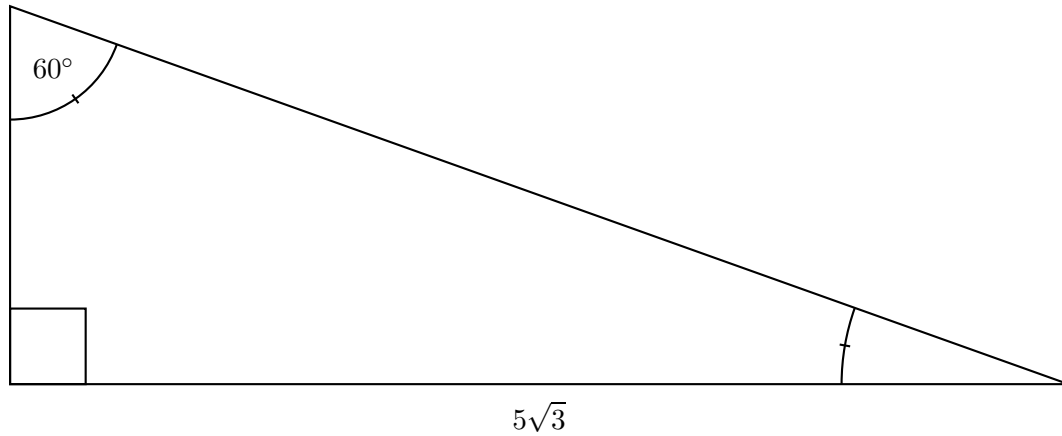


5. _____

6. (3 points) Rationalize the numerator: $\frac{\sqrt{10x}}{2x}$

6. _____

7. (5 points) Find the missing sides and missing angles of the right triangle given below.



7. _____

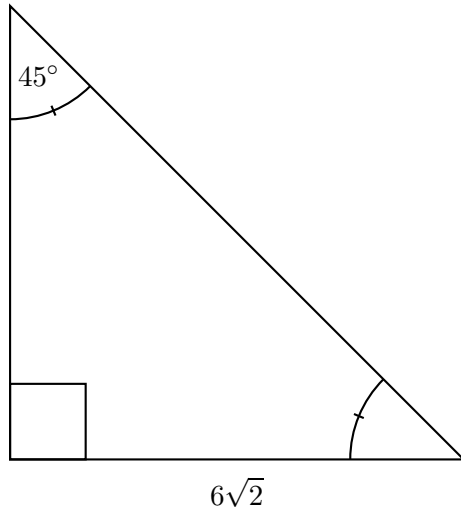
8. (4 points) Rationalize the denominator: $\frac{2}{\sqrt{5} + \sqrt{3}}$

8. _____

9. (4 points) Solve and rationalize your final answers: $2x^2 - 1 = 0$

9. _____

10. (4 points) Find the missing sides and missing angles of the right triangle given below.



10. _____

11. Algebra Review Problems:

- (a) (2 points) Solve $x^2 - 4x - 12 = 0$ by factoring.

(a) _____

- (b) (2 points) Solve $x^2 - 4x - 12 = 0$ by the quadratic formula.

(b) _____

- (c) (2 points) Solve $x^2 - 4x - 12 = 0$ by the completing the square.

(c) _____
