

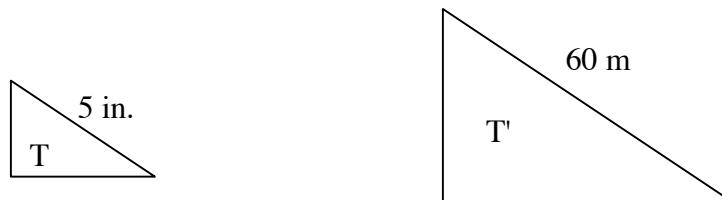
Group Work
9.2-9.3

- 1.) Use the quadratic formula to find the two solutions of $x^2 - 3x - 1 = 0$. Use a calculator to approximate these solutions to 5 decimal places.

How does your answer compare to part 5c of the last group work?

- 2.) Consider the quadratic equation $55x^2 = 34x + 21$.
- a.) Without using the quadratic formula, find a solution to this equation. (Hint: Check some small positive integers.)
- b.) Without using the quadratic formula, find the other solution. (Hint: The sum of the two solutions of $ax^2 + bx + c = 0$ equals $-b/a$)

- 3.) T and T' are similar triangles.



- a.) If the perimeter of T is 13 in., what is the perimeter of T' (in meters)?
(Hint: You don't have to do any conversions.)
- b.) If the area of T is 20 in^2 , what is the area of T' (in meters)?
(Hint: You don't have to do any conversions.)

