

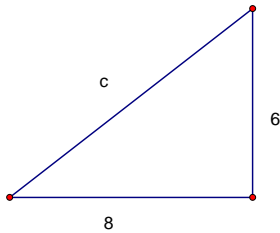
Math 116 Pythagorean Theorem

I) Determine if the sides determine a right triangle, obtuse triangle or acute triangle.

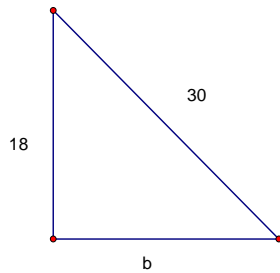
- 1) 10,12,15
- 2) 4,6,7
- 3) 12,15,20
- 4) 6,8,10

II) Find the missing side of the right triangle

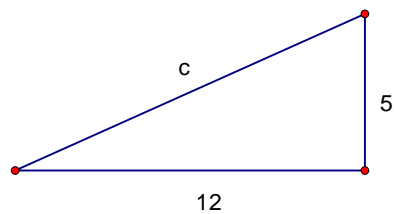
1)



2)



3)



III) Given that c is the hypotenuse of $\triangle ABC$, find the missing side. (Round to the nearest tenth when needed)

- 1) Given $a = 15$, $b = 20$, find c
- 2) Given $a = 24$, $b = 10$, find c
- 3) Given $a = 13$, $c = 20$, find b

IV) Classify each number from the list as a rational number or irrational number

$$2, 4, \pi, e, \sqrt{5}, 5, \frac{2}{9}, -\frac{5}{6}, \sqrt[3]{7}, \sqrt{16}$$