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## Pythagorean Theorem Extra Practice Worksheet

For 1-3, is the triangle a right triangle? Show your work.
1)

2)

3) $a=2.1, b=7.2, c=7.5$
6)



Find the distance between the two points.
10)

11)

12)


Find the distance between the two points. Use the graph if you wish.
13) $(1,5)$ and $(4,9)$
14) $(-9,2)$ and (-4, -3)
15) (-2, -7) and (6, -8)
16) $(5,9)$ and $(11,1)$

17) $(0,0)$ and $(300,400)$
18) $(32,80)$ and $(37,65)$
19) A skyscraper is 100 feet tall. A man wants to use a 30 -foot ladder to rescue somebody that is trapped in a room whose window is 28 feet above the ground. How far away from the building should he put the bottom of the ladder?
20) The same ladder is moved out so that the base is 15 feet away from the building. How high will the ladder reach now?
21) Derman left his house and drove 14 miles east. However, he realized that he missed his turn, so he turned around and drove 2.5 miles west. He then drove 5 miles north. How far away from his house did he end up?

