

Name: _____

Additional Practice

Mrs. Whittaker was out for a run one Saturday, when a vicious dog started to chase her. She tried to lose the dog by running 145 meters 20° east of north. She then turned and ran 105 meters 35° south of east. The dog got tired and Mrs. Whittaker was able to get away to teach physics another day. BUT what if the dog had simply sat down and watched Mrs. Whittaker run around, then ran straight towards her? How far and in what direction would the dog have to run? (You may assume that Mrs. Whittaker's motion began from the origin.)

*Watch your trig on this one!

