

MATA32 – Winter 2010

Bonus Problem – Due before 2pm on April 19th

Name: _____

If you get this problem completely correct, your lowest quiz score will be replaced by a perfect quiz score. Please hand in your solution directly to me anytime before 2pm on April 19th.

A cowboy and his horse are heading home to the cowboy's ranch, which is 15 km east and 2 km south of the cowboy's current position. However, on the way home the cowboy wants to stop by the river so that his horse can get a drink. The river, which flows east-west, is 5 km south of the cowboy's current position. What is the shortest distance the cowboy and his horse must travel to get home, hitting the river on the way? You must carefully justify your answer to receive credit.

